

# Form a pictograph about the children's favorite character: Spiderman Tom and Jerry Superman Rapunzel 10 children 30 children **Tally Chart** Superman ## ## Superman Tom and Jerry Tom and Jerry Rapunzel ## ## Rapunzel Spiderman ## ## Spiderman Key: Each ...... represents ..... child. Which scale did you use? .....

#### Make Picture Graphs Ben asked his classmates about their favorite Favorite TV Show kind of TV show. He recorded their responses in Number Type a frequency table. Use the data in the table to make Cartoons a picture graph. Sports Follow the steps to make a picture graph. Movies **Step 1** Write the title at the top of the graph **Step 2** Look at the numbers in the table. Tell how many students each picture represents for the key Cartoons **Step 3** Draw the correct number of pictures Sports for each type of show. Movies Use your picture graph for 1-4. Key: Each = 1. What title did you give the graph? 2. What key did you use? Problem Solving 3. How many pictures would you draw 4. What key would you use if if 12 students chose game shows as 10 students chose cartoons? 0000 their favorite kind of TV show?

5. WRITE Math Describe why it might not be a good idea to use a key where each symbol stands for 1 in a picture graph.

# Share and Show School Walk-a-Thon Sam Matt's school is having a walk-a-thon to raise money for Matt TTT the school library. Matt made a picture graph to show Ben 9 the number of miles some students walked. Make a bar 介介介介介 Erica graph of Matt's data. Use a scale of 0-\_\_\_\_, and mark Key: Each T = 2 miles. the scale by \_\_\_\_\_. Math Talk MATHEMATICAL PRACTICES (3) Apply How would the Use your bar graph for 1-4. graph have to change if another student, Daniel, 1. Which student walked the most miles? walked double the number of miles Erica Think: Which student's bar is the tallest? walked? 2. How many more miles would Matt have had to walk to equal the number of miles Erica walked? 3. How many miles did the students walk? 4. Write the number of miles the students walked in order from greatest to least.

#### Make Bar Graphs

Ben asked some friends to name their favorite breakfast food. He recorded their choices in the frequency table at the right.

1. Complete the bar graph by using Ben's data.

<b>Favorite Breakfast Food</b>			
Food	Number of Votes		
Waffles	8		
Cereal	14		
Pancakes	12		
Oatmeal	4		

# Favorite Breakfast Food 16 12 Naffles Cereal Pancakes Oatmeal Food

Use your bar graph for 2-4.

2. Which food did the most people choose as their favorite breakfast food?

3. How many people chose waffles as their favorite breakfast food?

**4.** Suppose 6 people chose oatmeal as their favorite breakfast food. How would you change the bar graph?

5. WRITE Math Have students use the data on page 116 and explain how to draw a bar for a player named Eric who scored 20 points.

#### **Use and Make Line Plots**

Use tl

e the d	ata in t	the tab	ole to n	nake a	line plot.	Sold at 1	Sold at Each Price?	
						Price	Number Sold	
						\$11		
						\$12	14	
						\$13	6	
4	- 1		Ţ	1		\$14		
\$11	\$12	\$13	\$14	\$15	\$16	\$15	0	
How M	lany Sh	irts We	re Sold	at Each	Price?	\$16	2	

- 1. How many shirts sold for \$12?
- 2. How many shirts were sold for \$13 or more?

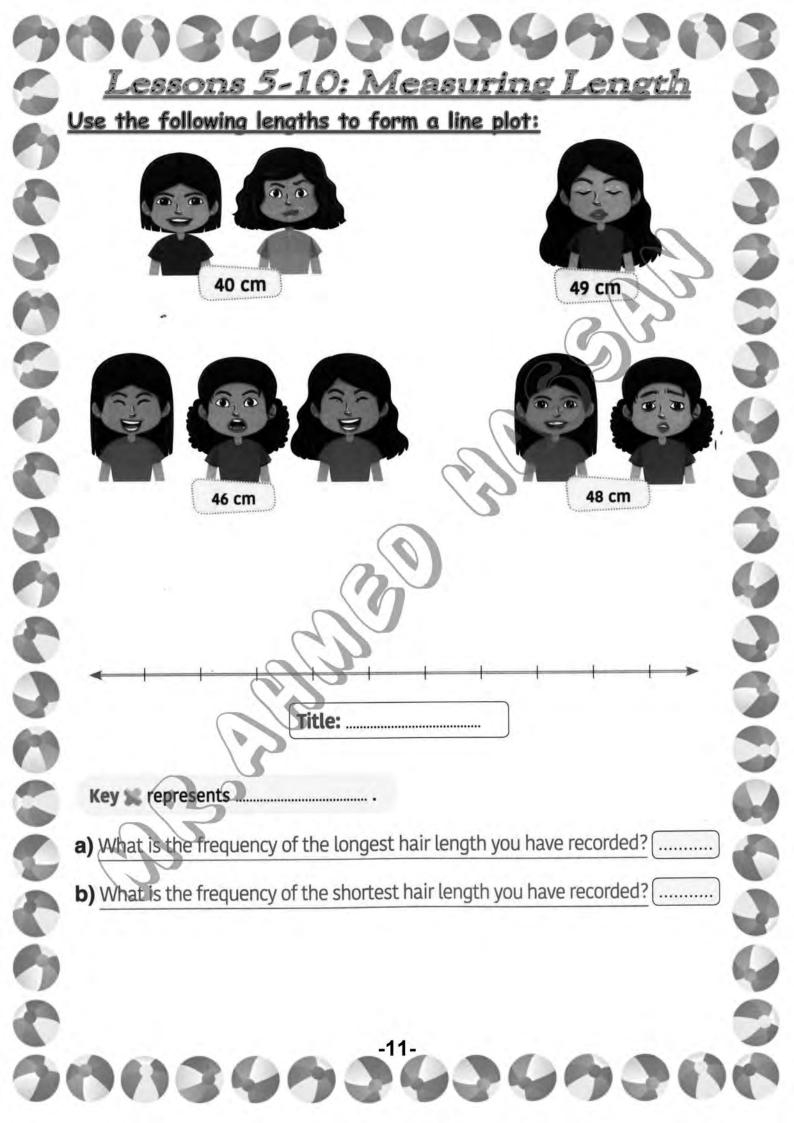
**How Many Shirts Were** 

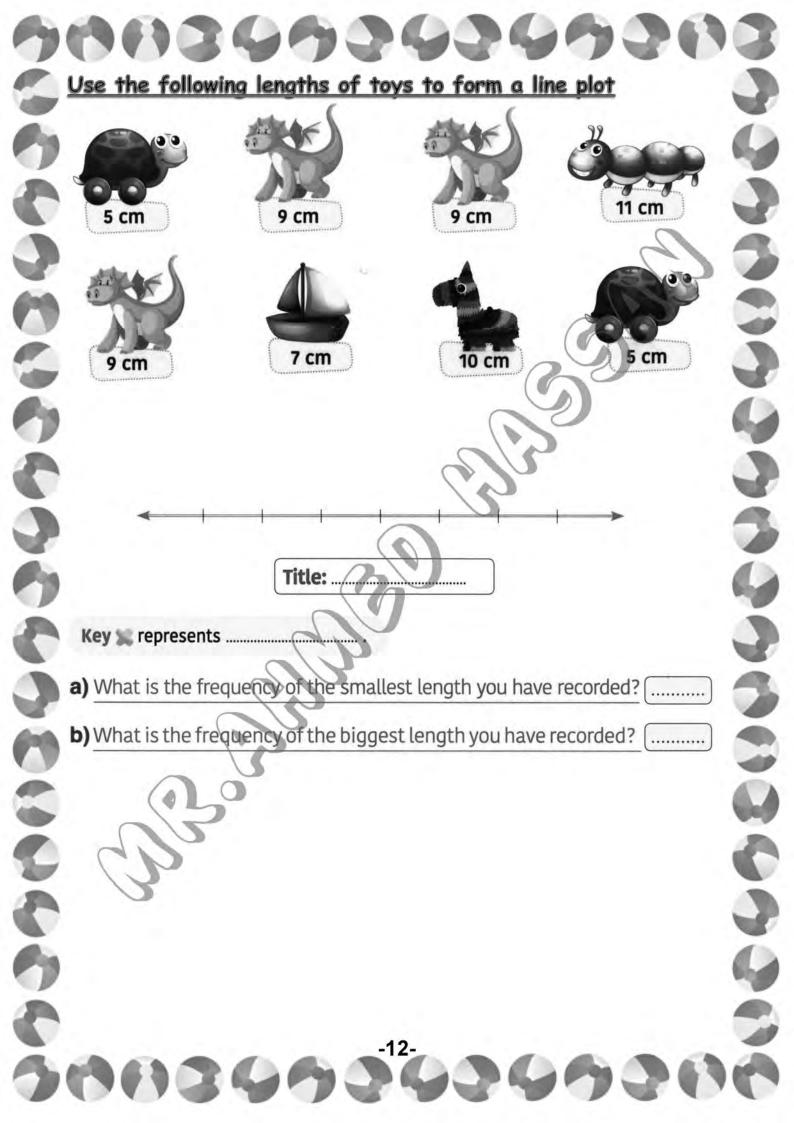
4 shirts

# **Problem Solving**

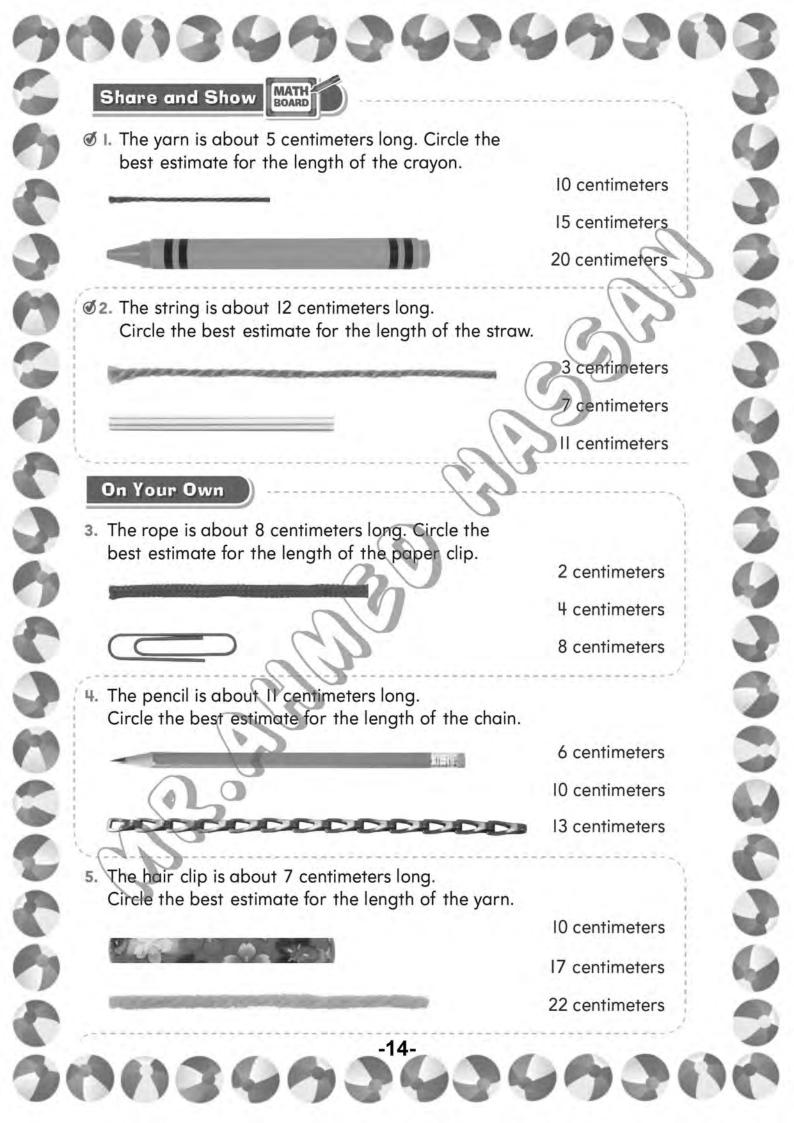
Use the line plot above for 3-4.

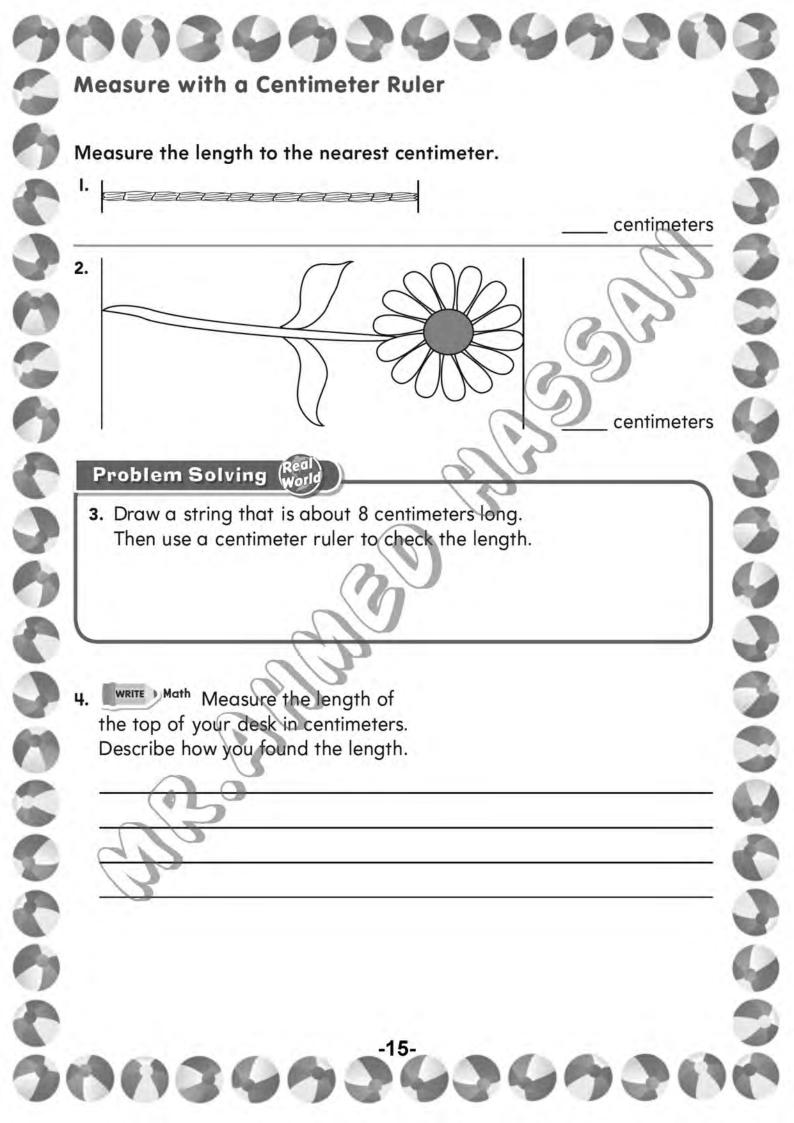
- 3. Were more shirts sold for less than \$13 or more than \$13? Explain.
- 4. Is there any price for which there are no data? Explain.
- 5. WRITE Math Have students write and solve another problem using the data in the Daily High Temperatures line plot on page 128.

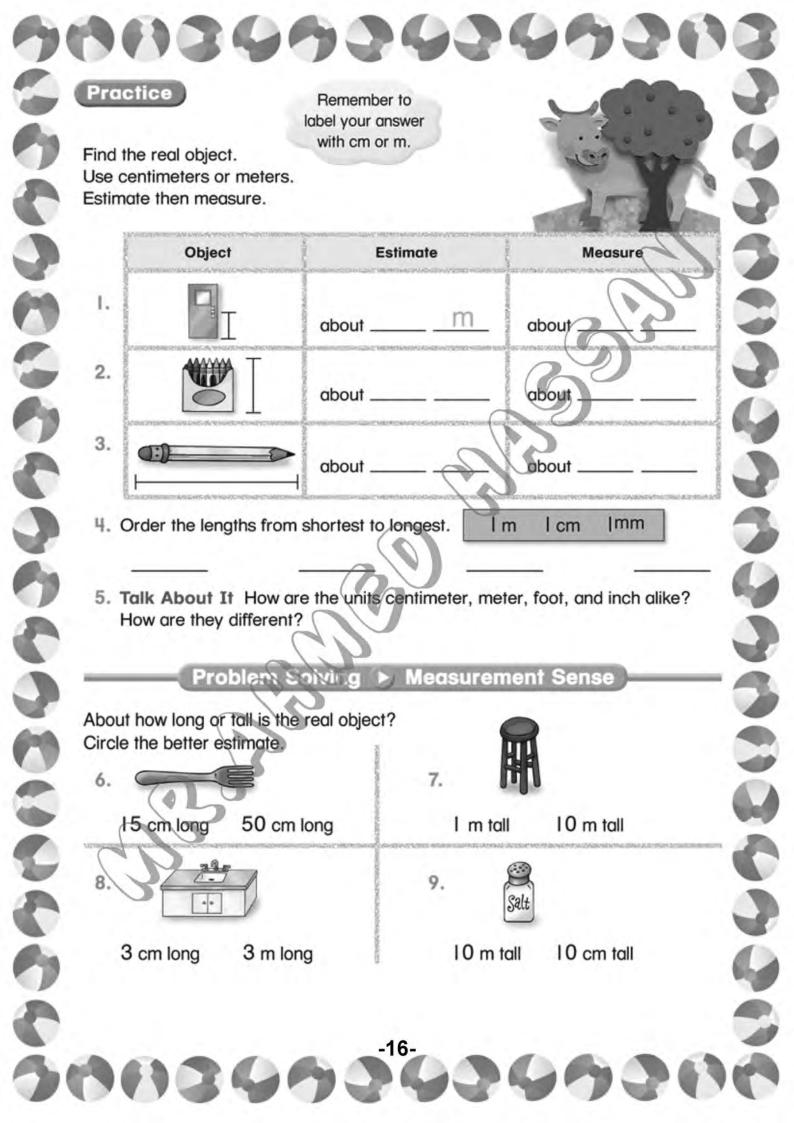


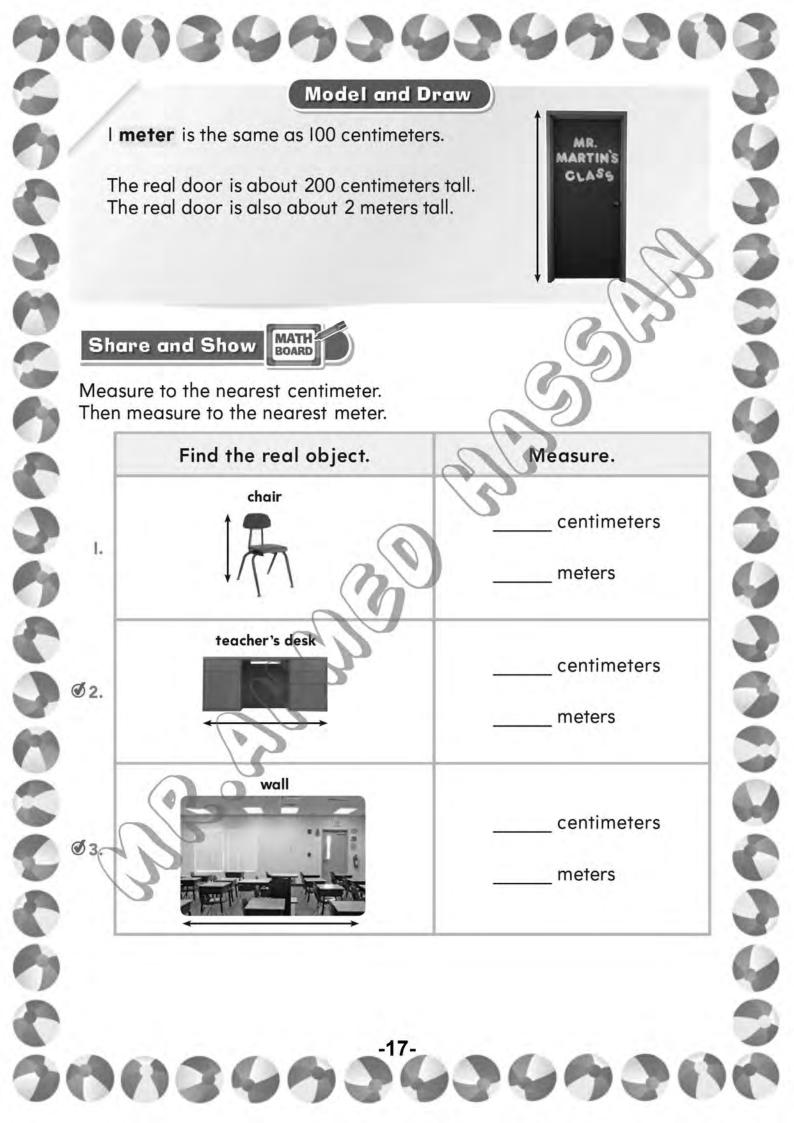


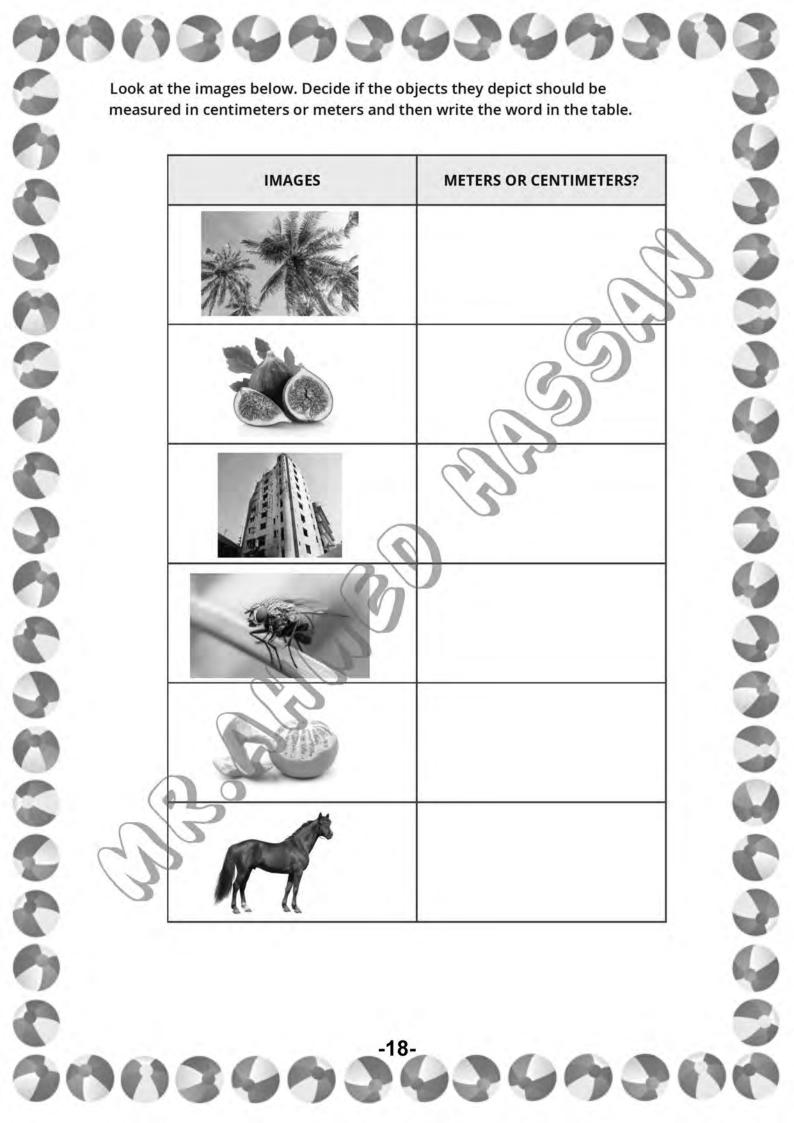


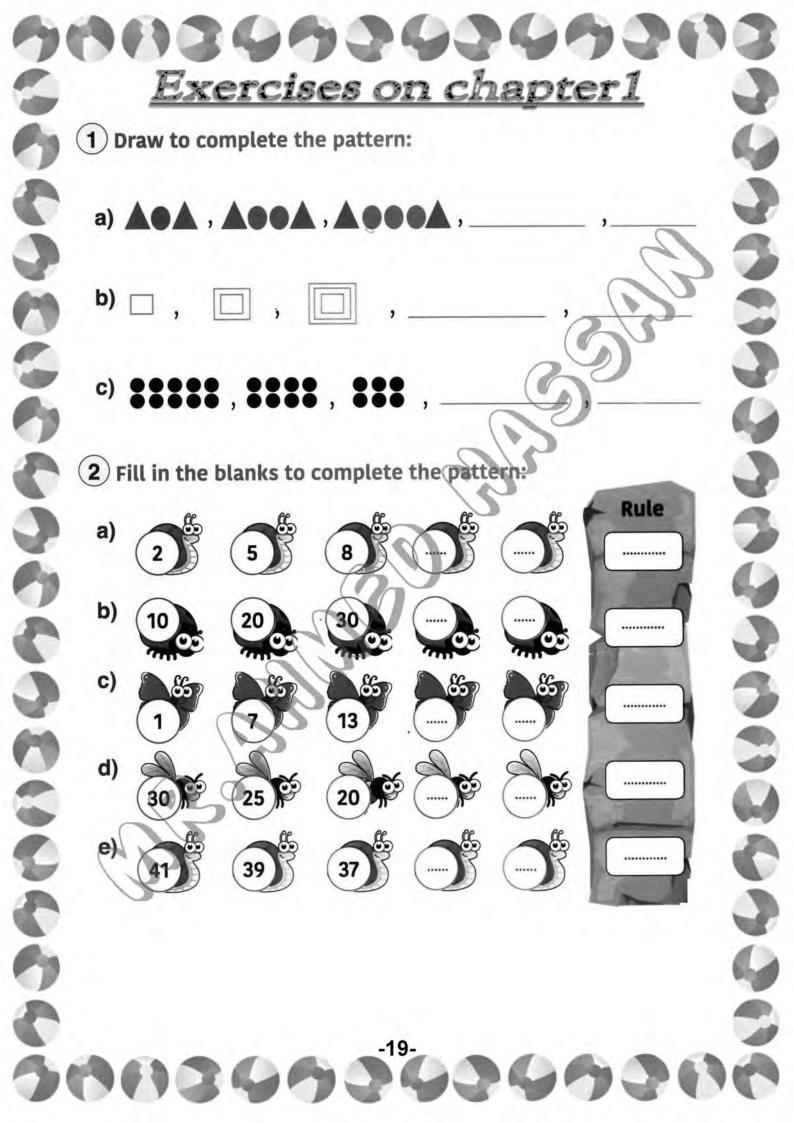


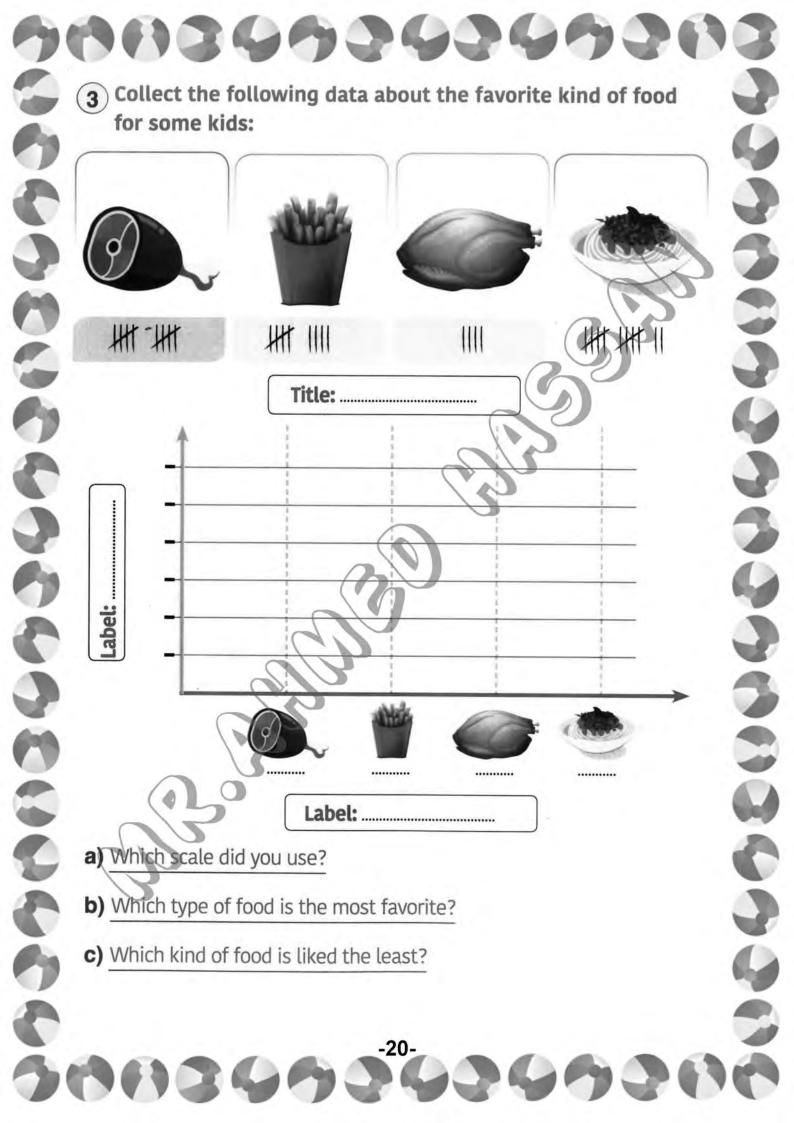


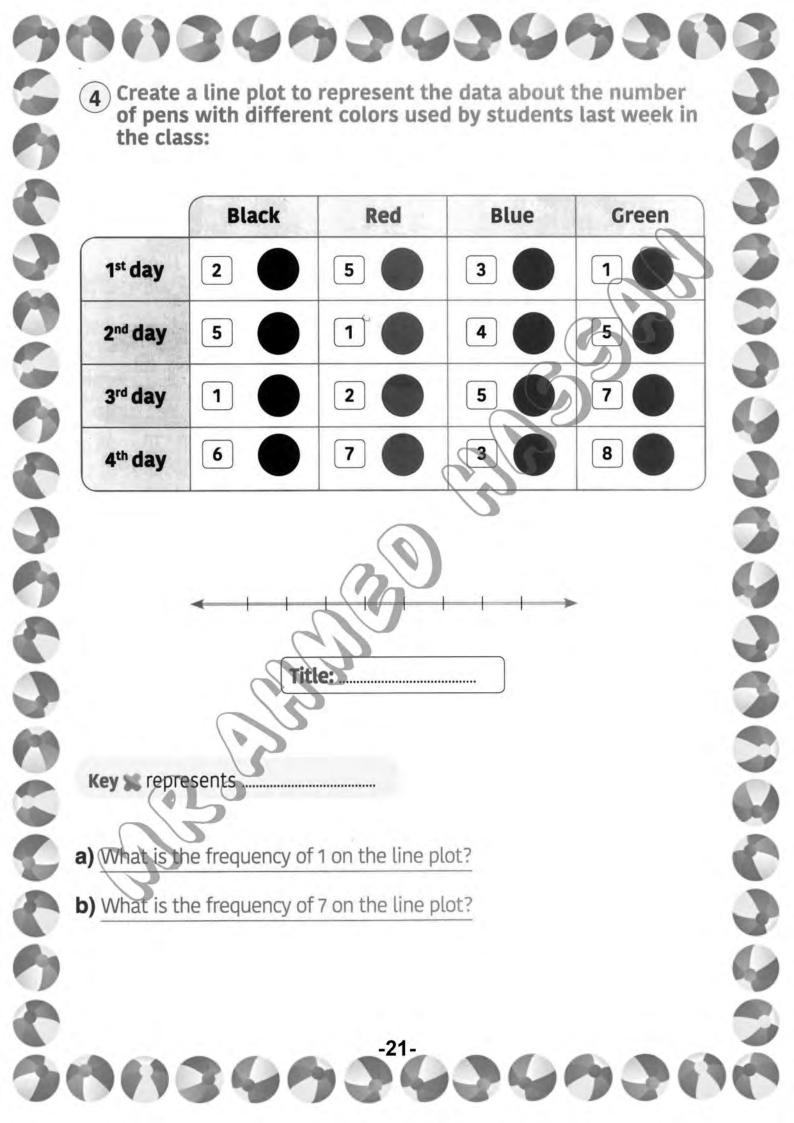


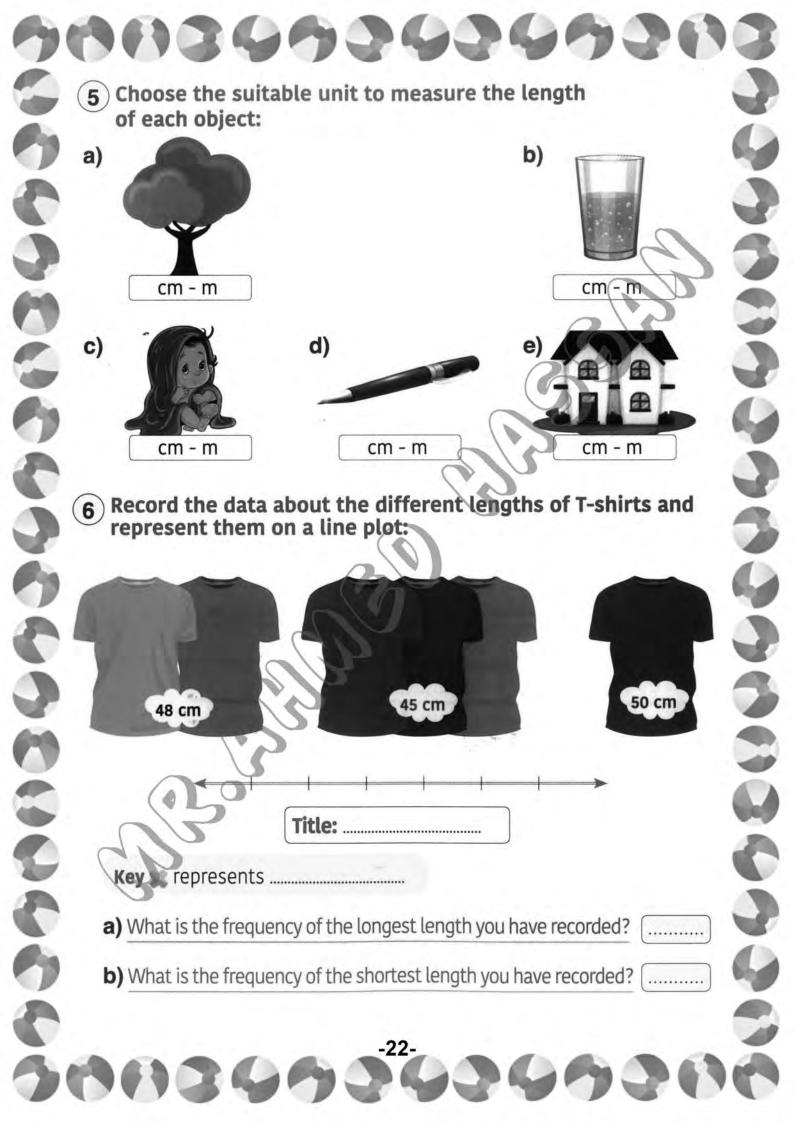


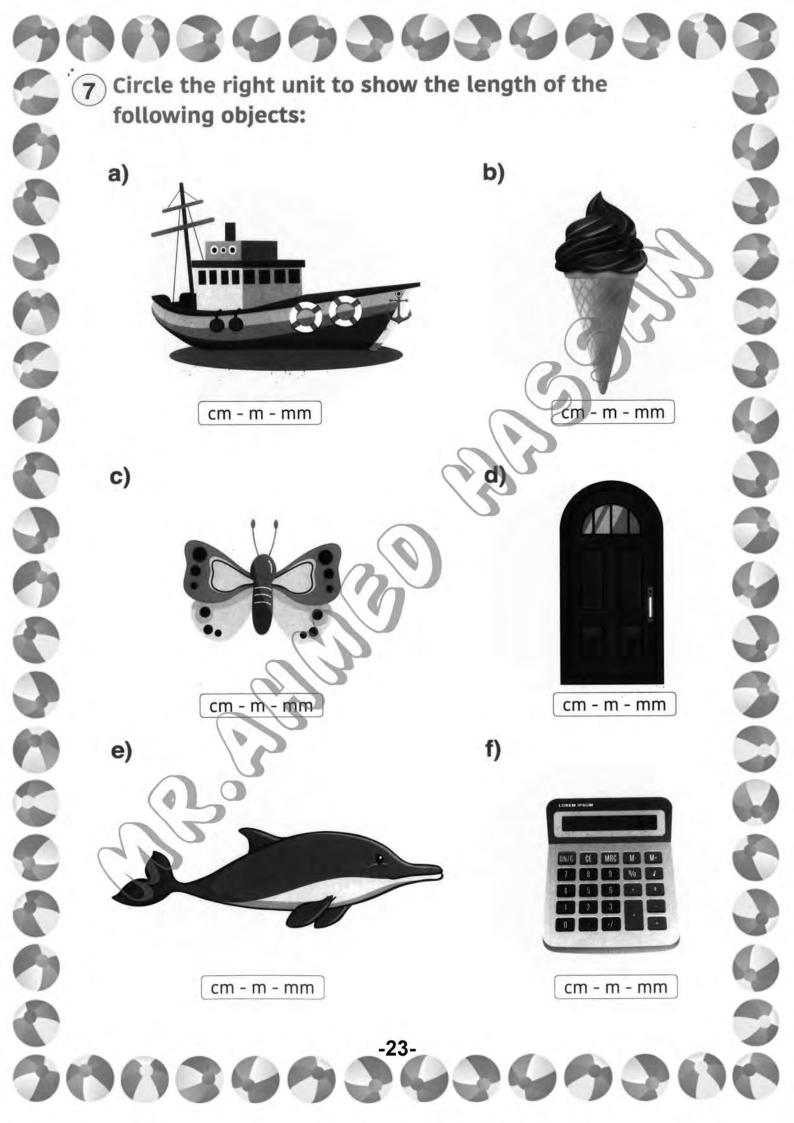


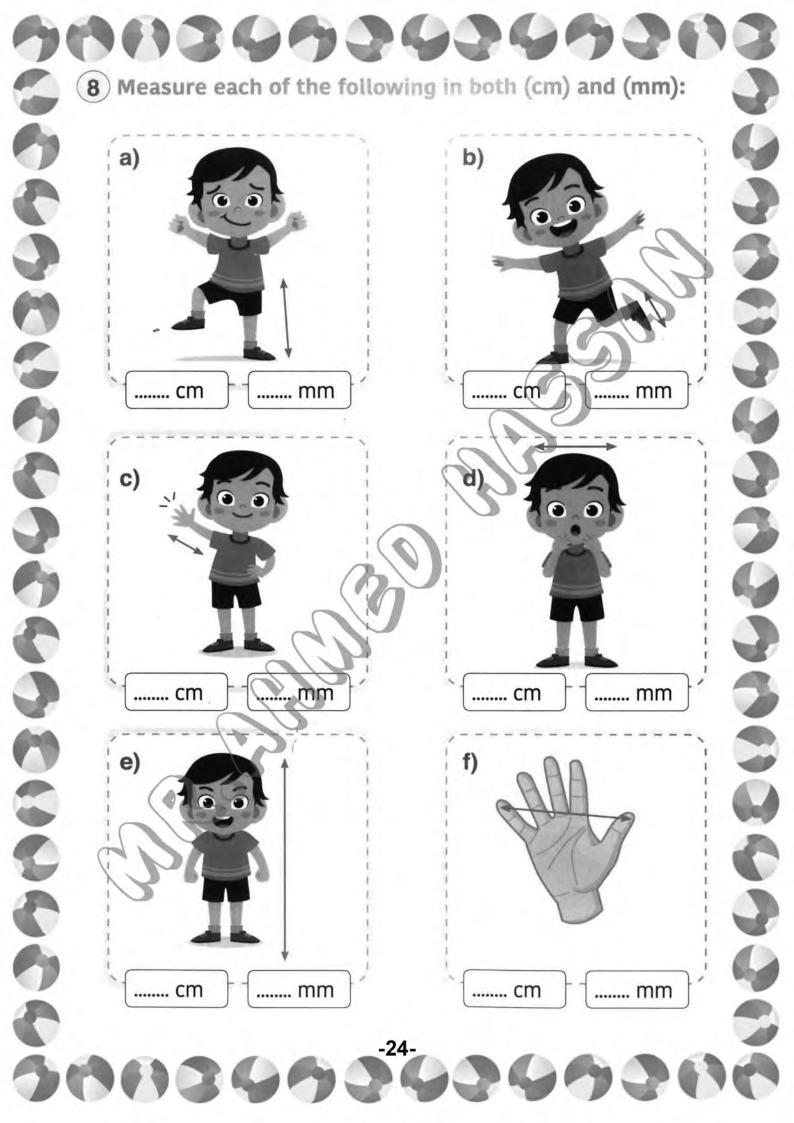


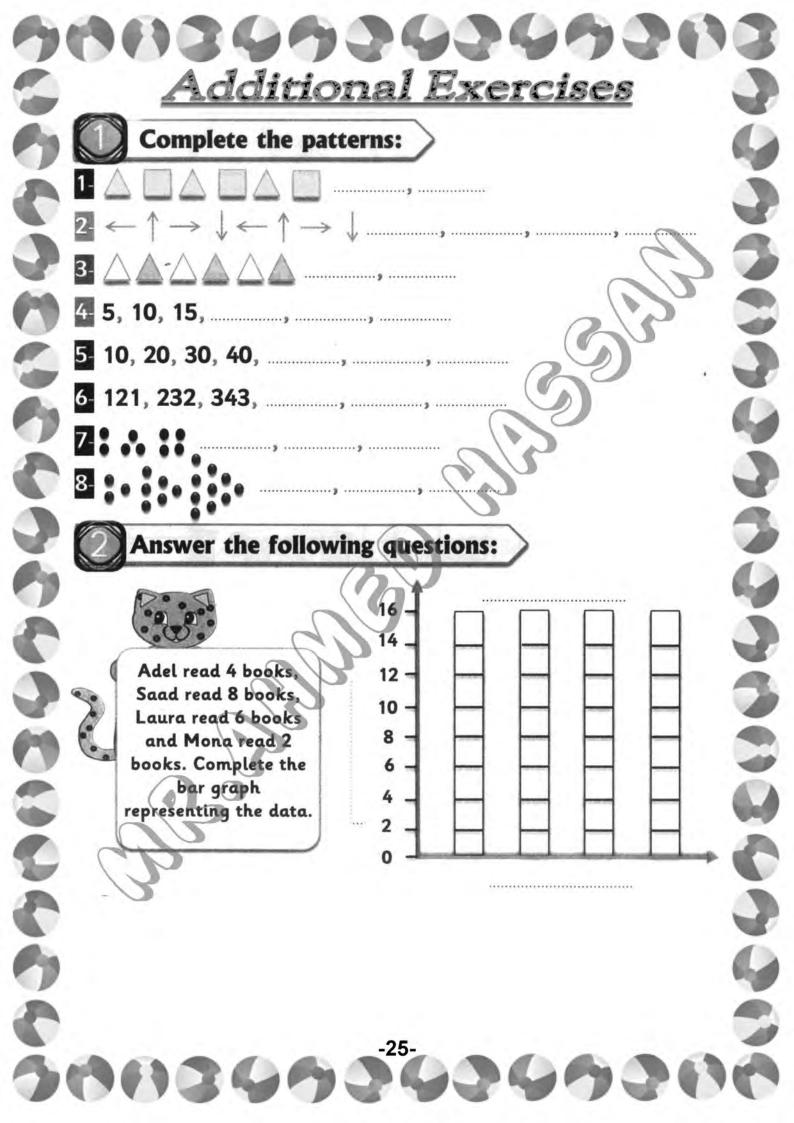




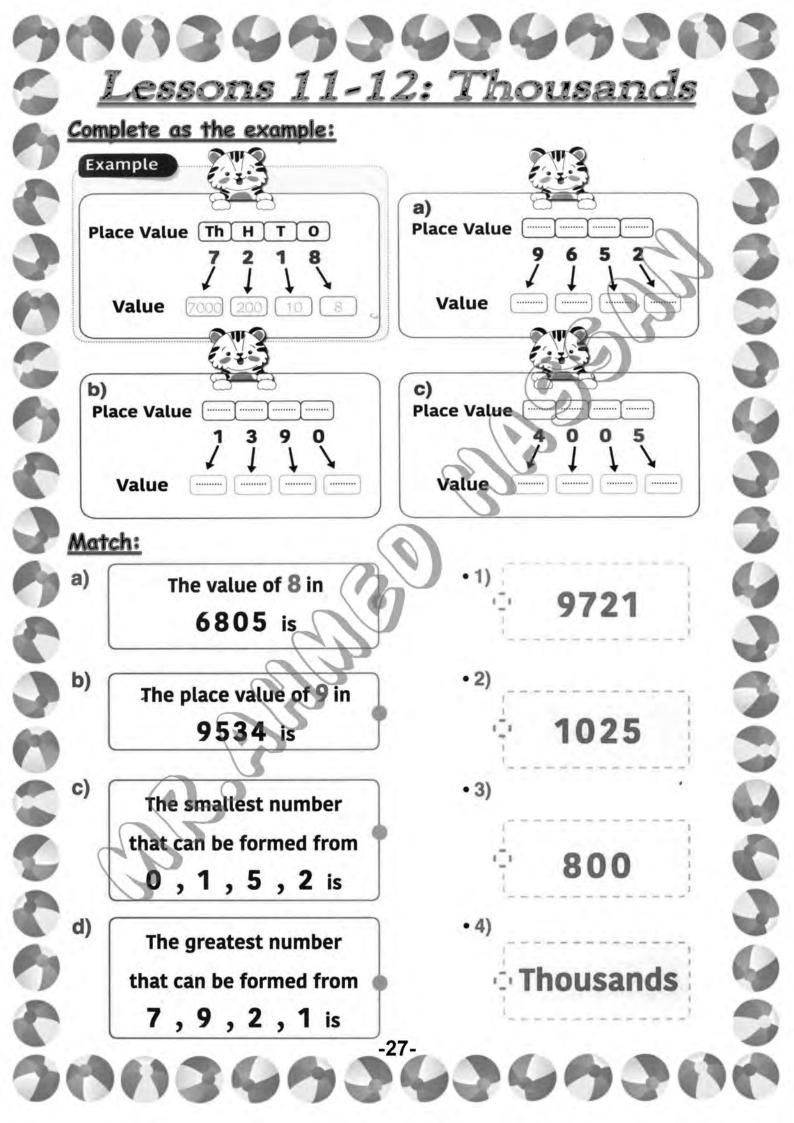


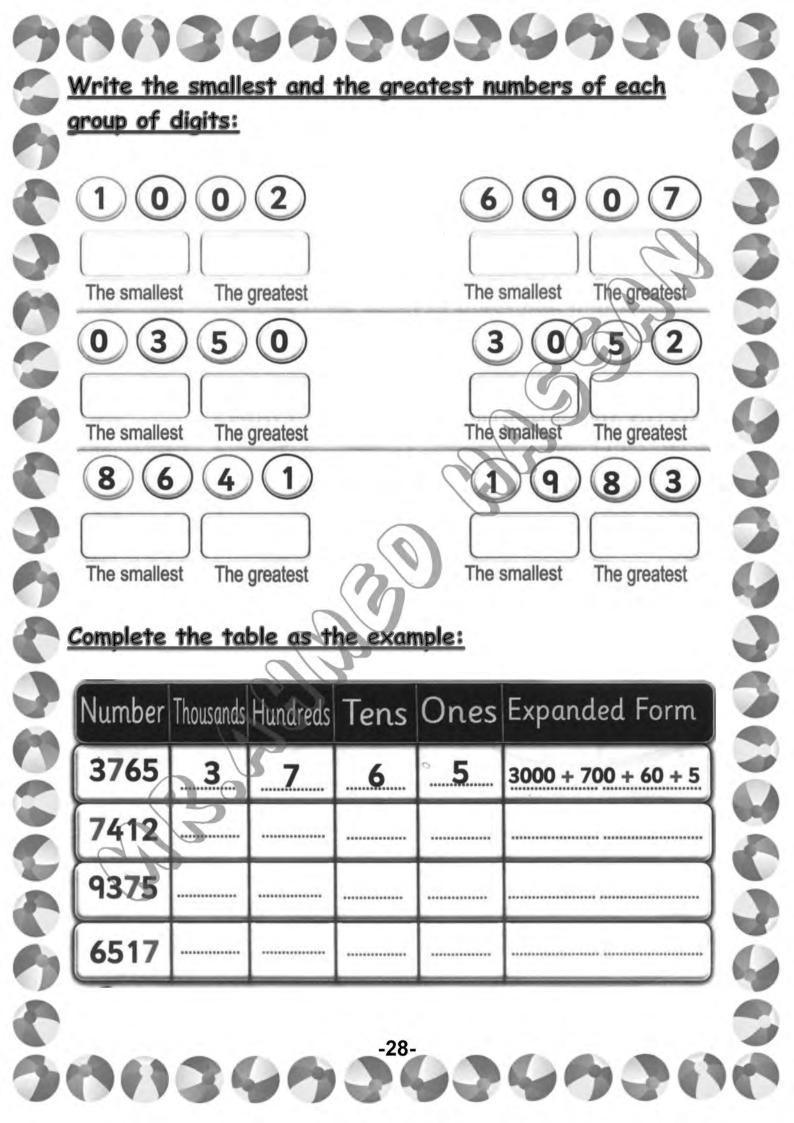


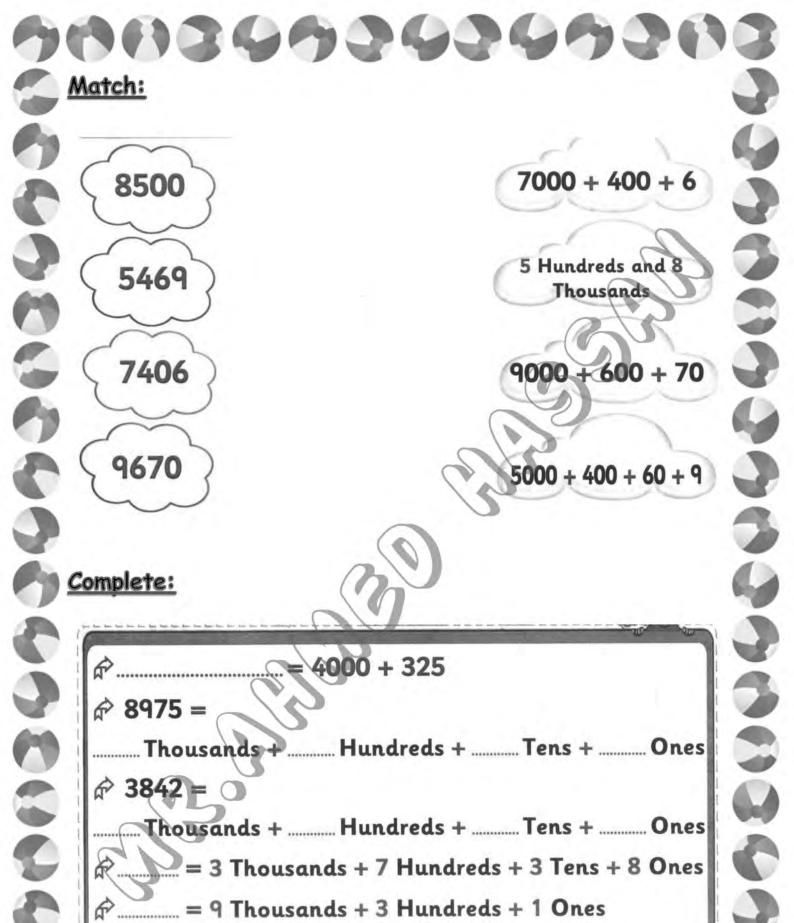




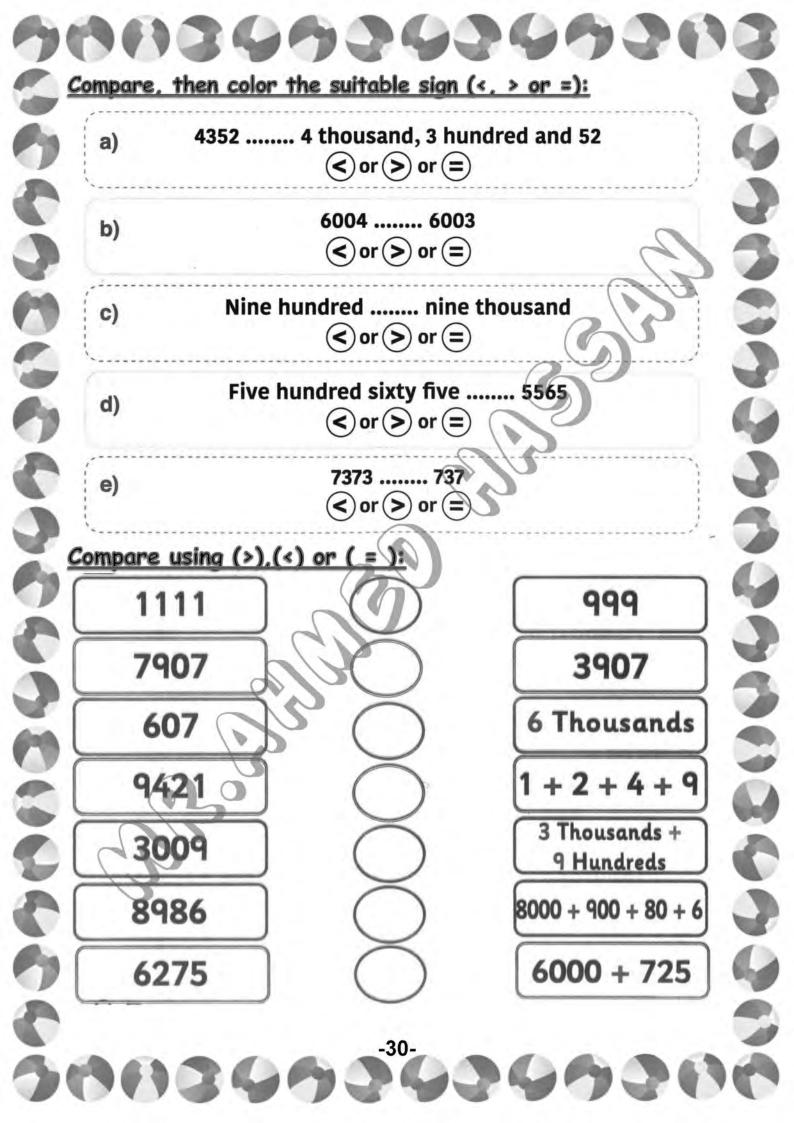
9003993	0000000
The boys who went to a camp recorded the activities that they	The activity
practised there.	Cycling   Cycling
Which two activities were	Walking
done by 39 boys?	Rowing @ @ @
Complete	Fishing 🖭 🖭 🙂
Complete	e = 6 boys
(1) Each = boys, each	ch =boys.
(2) Number of boys for both Cycling	and walking together =boys.
(3) Number of those who practised wa	lking and rowing together
(4) Number of those who practiced j	fishing and cycling together =boys.
Represent the following data usin	ng the line plot. Then answer the
questions:	2/2
Food Tally	
Meet	
Fish	
chicken ## 11	
Fruit	X=
(1) Which food got the most votes?	
(2) Which food got the least number	r of votes?
(2) Which juda got-the least huntue	, of votes.
(3) What is the total number of vot	es for all the foods?
44000000	-26-
9603693	10200200

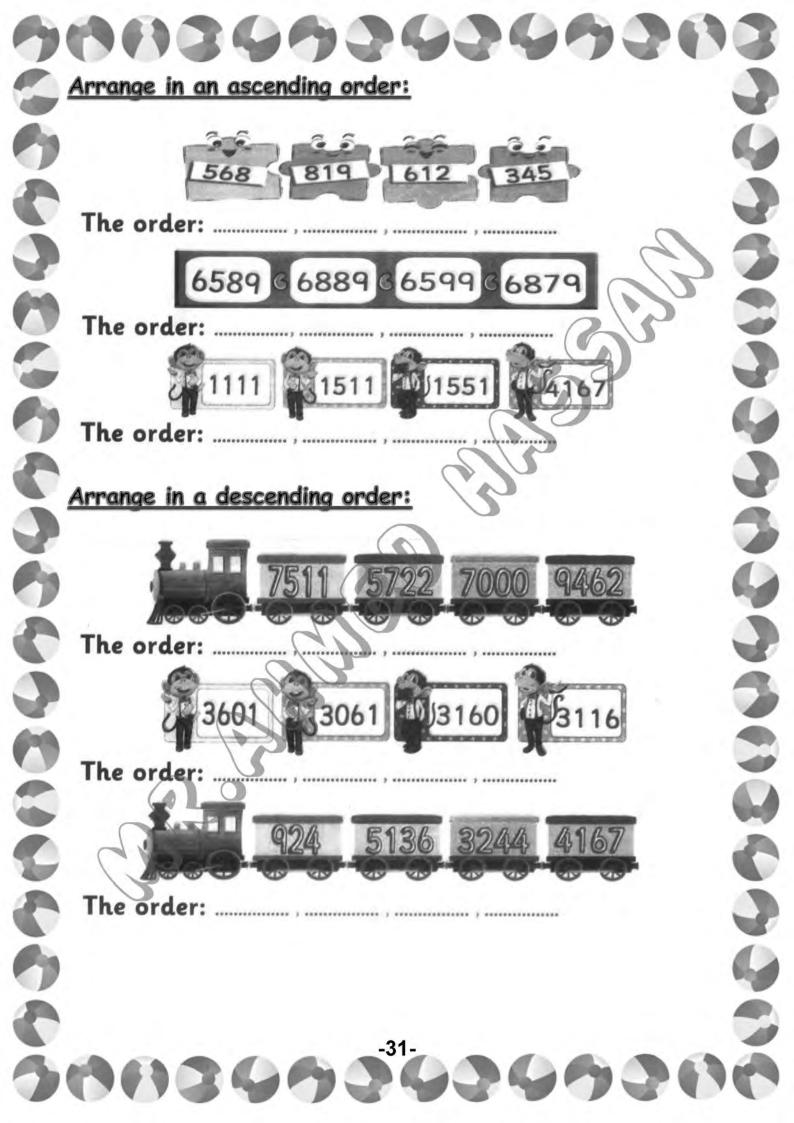






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# Lessons 13-14: Ten thousands and hundred thousands Model Place Value Relationships

#### Find the value of the underlined digit.

- 1. 6,035
- 2. 43,782
- 3. 506,087
- 4. 49,254

- 5. 136,422
- 6. 673,512
- 7. 814,295
- 8. 73<u>6,144</u>

#### Compare the values of the underlined digits.

9. 6,300 and 530

The value of 3 in \_\_\_\_\_ is \_\_\_\_ times the value of 3 in \_\_\_\_\_ .

**10.** <u>2</u>,783 and 7,<u>2</u>83

The value of 2 in \_\_\_\_\_ is \_\_\_\_ times the value of 2 in \_\_\_\_\_ .

# Problem Solving (Real World

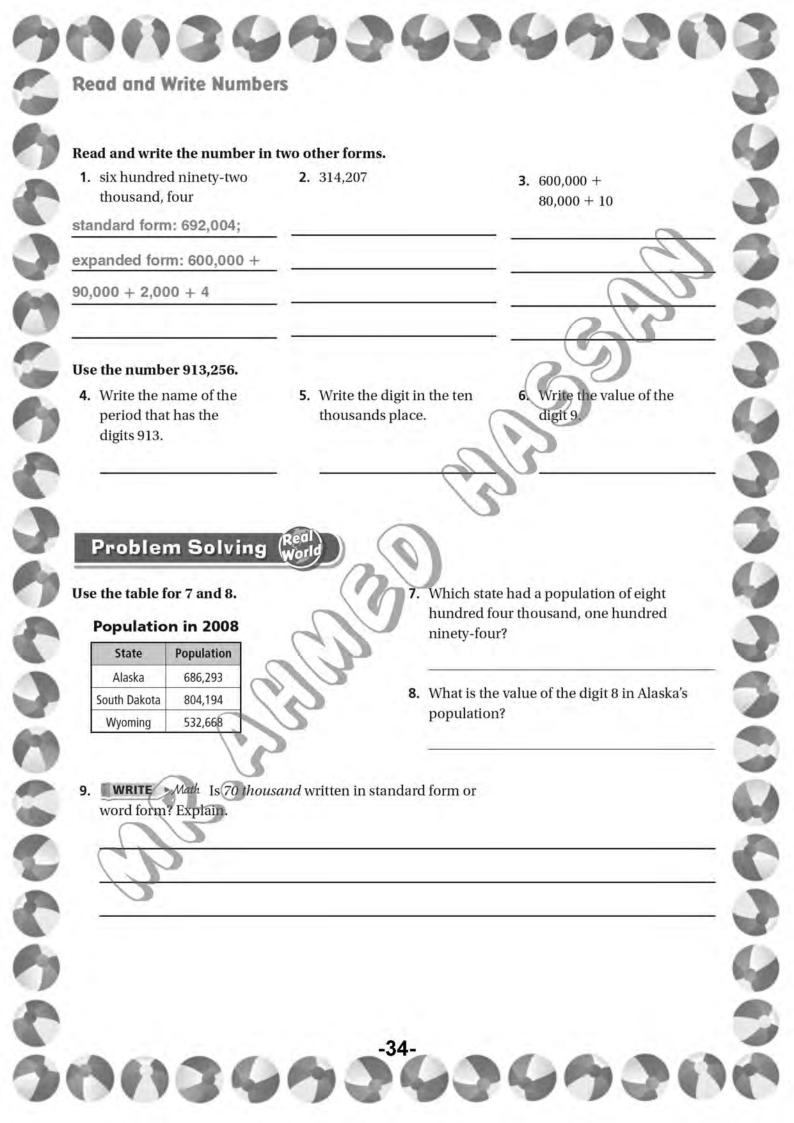
#### Use the table for 11-12.

- 11. What is the value of the digit 9 in the attendance at the Redskins vs. Titans game?
- **12.** The attendance at which game has a 7 in the ten thousands place?

Football Game Attendance				
Game	Attendance			
Redskins vs. Titans	69,143			
Ravens vs. Panthers	73,021			
Patriots vs. Colts	68,756			

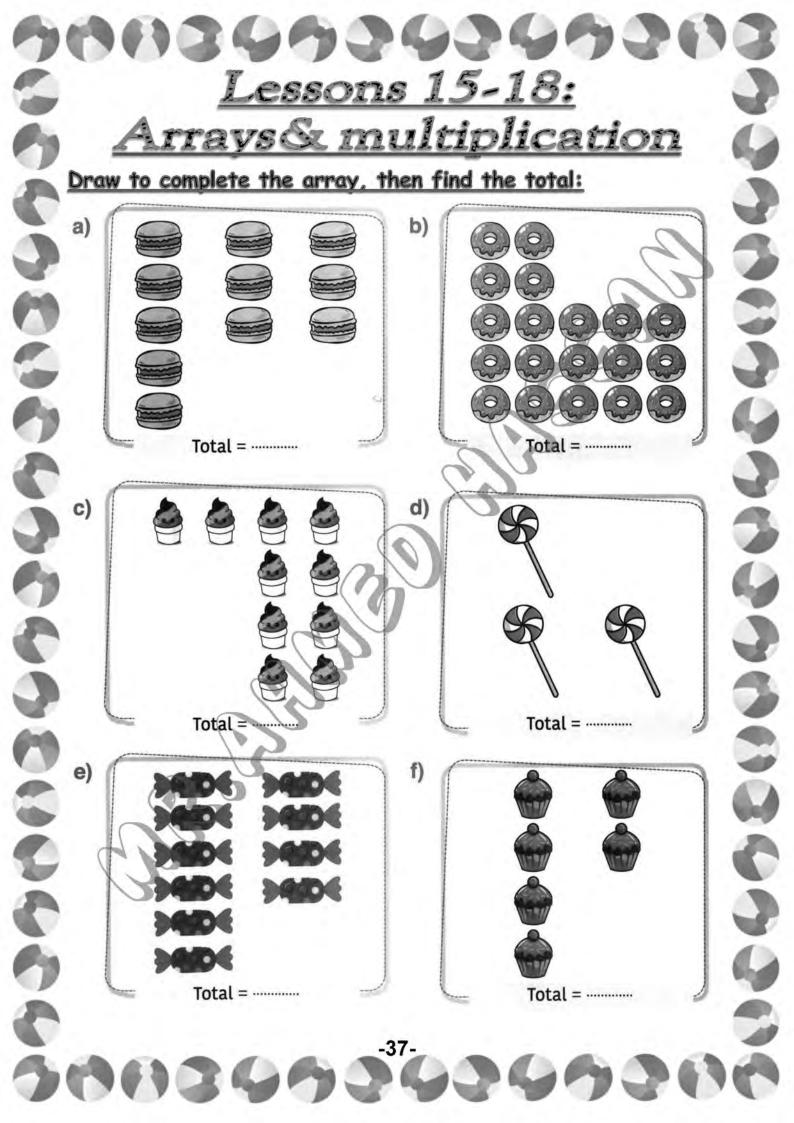
**13. WRITE** Math How does a digit in the ten thousands place compare to a digit in the thousands place?

# Share and Show BOARD 1. How can you use place value and period names to read and write 324,904 in word form? Read and write the number in two other forms. **3**. 65,058 ②2. four hundred eight thousand, seventeen Math MATHEMATICAL PRACTICES 2 Symbols and Words Explain how you can use the expanded form of On Your Own a number to write the number in standard form. Read and write the number in two other forms. 4. five hundred eight thousand 5. forty thousand, six hundred nineteen 6. 570,020 7. 400,000 + 60,000 + 5,000 + 1008. THINKSMARTER During the week of the county 9. There were 94,172 people at a fair, fifteen thousand, six hundred nine entry football game on Saturday. On Monday, tickets were sold. Is it correct to write the 1,000 fewer people were at a football game. number as 15,069? Explain. In word form, how many people were at the football game on Monday? 10. Richard got 263,148 hits when he did an Internet search. What is the value of the digit 6 in this number? Explain. -33-



#### MATH Share and Show BOARD 1. Compare 15,327 and 15,341. Write <, >, or =. Use the number line to help. 15,300 15,310 15,320 15,330 15,340 15,350 15,360 15,327 15,341 Compare. Write <, >, or =. **3.** 56,991 2. 631,328 640,009 52,880 4. 708,561 629,672 5. 143,062 98,643 Math MATHEMATICAL PRACTICES 2 Talk Order from greatest to least. Use Reasoning Why do you not start with the ones **6**. 20,650; 21,150; 20,890 digits when comparing three multi-digit numbers? On Your Own Compare. Write <, >, or =. 8. 88,304 88,304 7. \$2,212( \$2,600 \$61,090 10. 751,272 9. \$524,116 851,001 Order from least to greatest. 11. 41,090; 41,190; 40,009 12. 910,763; 912,005; 95,408 PRACTICE O Identify Relationships Algebra Write all of the digits that can replace each . **13.** 567 < 5 5 < 582 **14.** 464,545 > 4 3,535 > 443,550 -35-

#### Compare and Order Numbers Compare. Write <, >, or =. **1.** 3,273 (<)3,279 2. 1,323 3. 52,692 52,692 1,400 4. 413,005 62,910 5. 382,144 6. 157,932 200,013 382,144 7. 401,322 8. 989,063 410,322 980,639 9. 258,766 258,596 Order from least to greatest. 10. 23,710; 23,751; 23,715 11. 52,701; 54,025; 5,206 **13.** 330,820; 329,854; 303,962 **12.** 465,321; 456,321; 456,231 **Problem Solving** 14. An online newspaper had 350,080 visitors in The total land area in square miles of each of October, 350,489 visitors in November, and three states is shown below. 305,939 visitors in December. What is the Colorado: 103,718 order of the months from greatest New Mexico: 121,356 to least number of visitors? Arizona: 113,635 What is the order of the states from least to greatest total land area? 16. WRITE Math Suppose the leftmost digits of two numbers are 8 and 3. Can you tell which number is greater? Explain. -36-



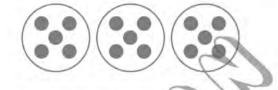


### Draw equal groups. Skip count to find how many. 1. 2 groups of 2 \_\_\_4 2. 3 groups of 6 \_\_\_\_\_ Count equal groups to find how many. 3. 4. groups of groups of \_ in all in all **Problem Solving** 6. Tomas works in a cafeteria kitchen. 5. Marcia puts 2 slices of cheese on each sandwich. She makes 4 cheese He puts 3 cherry tomatoes on each sandwiches. How many slices of of 5 salads. How many tomatoes does cheese does Marcia use in all? he use? 7. WRITE Math Write a problem that can be solved by using equal groups. -39-

#### Relate Addition and Multiplication

Draw a quick picture to show the equal groups. Then write related addition and multiplication sentences.

1. 3 groups of 5



**2.** 3 groups of 4

3. 5 groups of 2

Complete. Write a multiplication sentence.

4. 
$$7 + 7 + 7 =$$

5. 
$$3 + 3 + 3 =$$

#### Problem Solving (World

6. There are 6 jars of pickles in a box. Ed has 3 boxes of pickles. How many jars of pickles does he have? Write a multiplication sentence to find the answer.

7. Each day, Jani rides her bike 5 miles. How many miles does Jani ride in 4 days? Write a multiplication sentence to find the answer.

8. WRITE Math Write a word problem that involves combining three equal groups.

#### Share and Show



1. Complete. Use the array.

rows of =



Write a multiplication sentence for the array.





#### On Your Own

Write a multiplication sentence for the array.



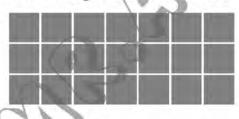


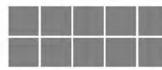
Draw an array to find the product.

**6.**  $3 \times 6 =$  \_\_\_\_\_

Write a multiplication sentence for the array.

1.

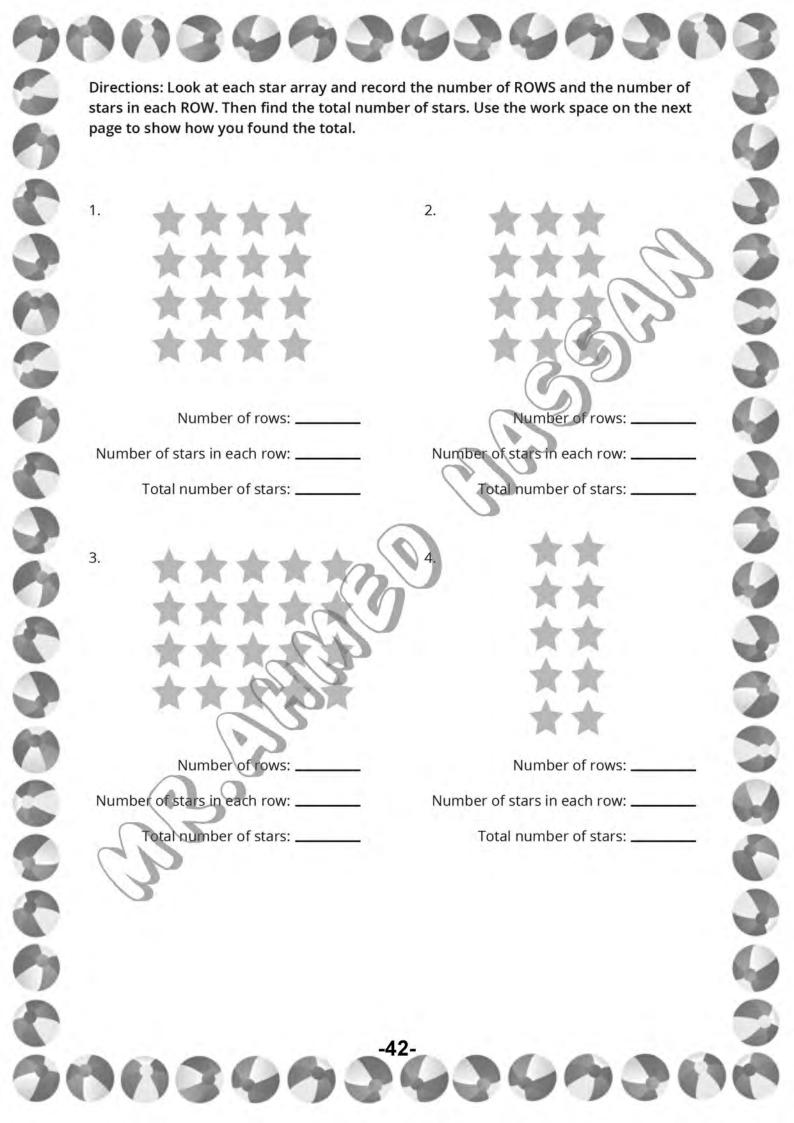


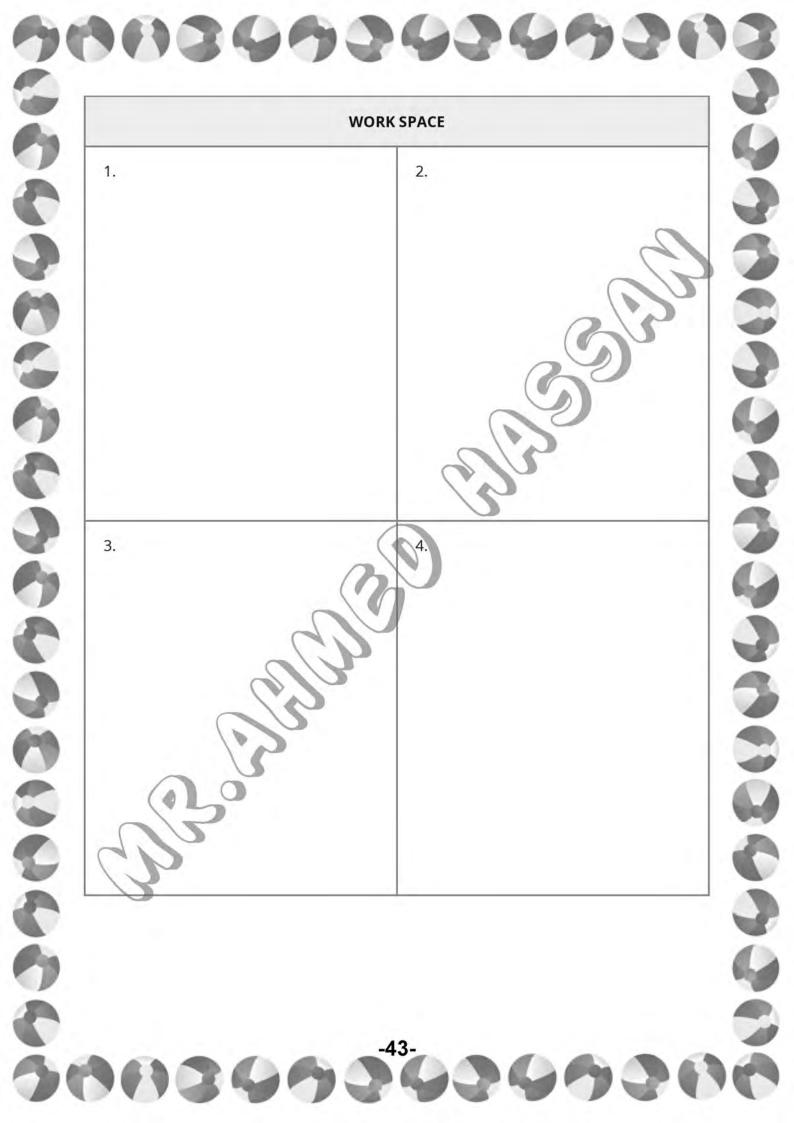


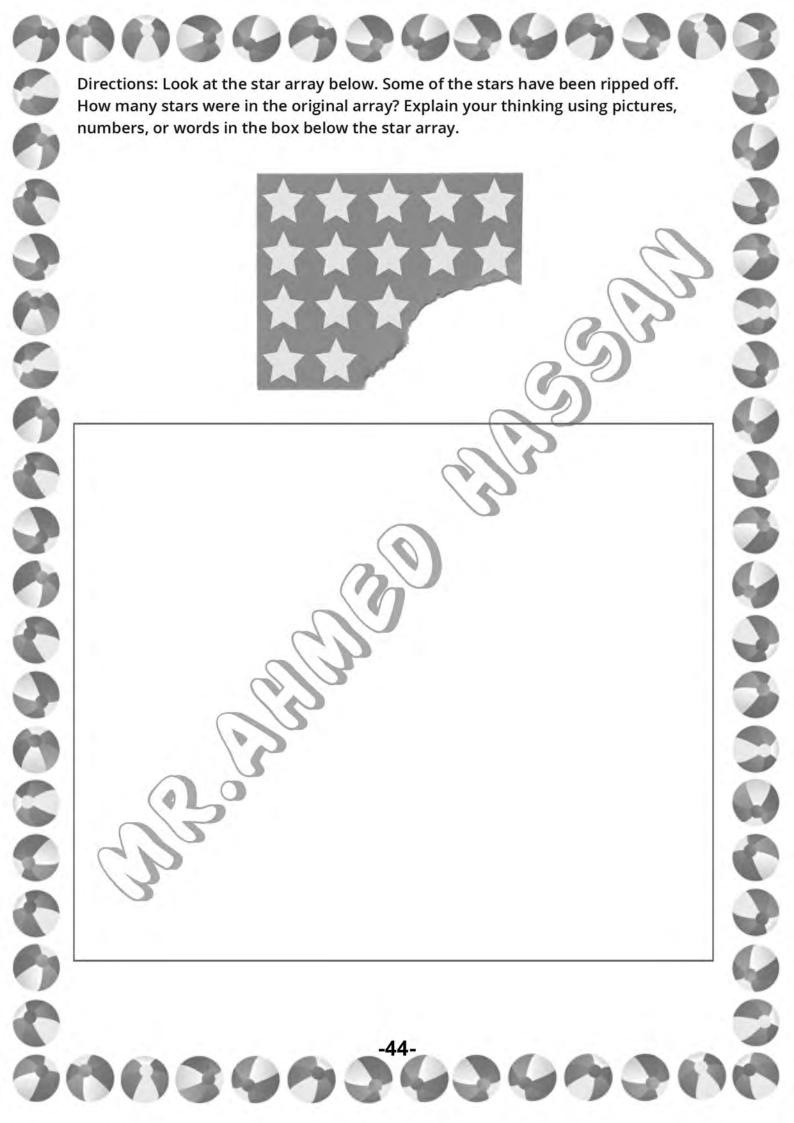
$$3 \times 7 = 21$$

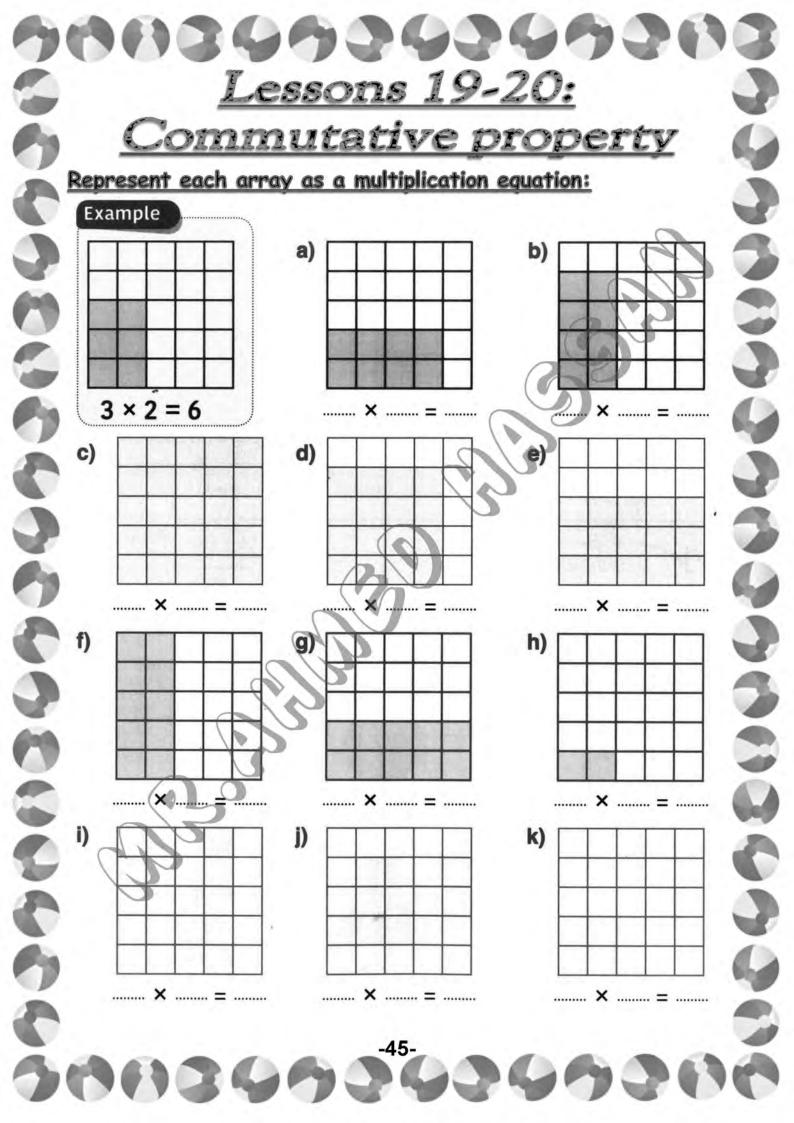
- $2 \times 5 =$
- Draw an array to find the product.

4.  $2 \times 8 =$  \_\_\_\_



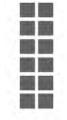








1. Write a multiplication sentence for the array.



### Talk

#### MATHEMATICAL PRACTICES 1

Make Sense of Problems Explain what the factor 2 means in each multiplication sentence.

Write a multiplication sentence for the model. Then use the Commutative Property of Multiplication to write a related multiplication sentence.

2.













#### On Your Own

Write a multiplication sentence for the model. Then use the Commutative Property of Multiplication to write a related multiplication sentence.

5.

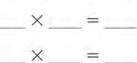












7.



Use Reasoning Algebra Write the unknown factor.

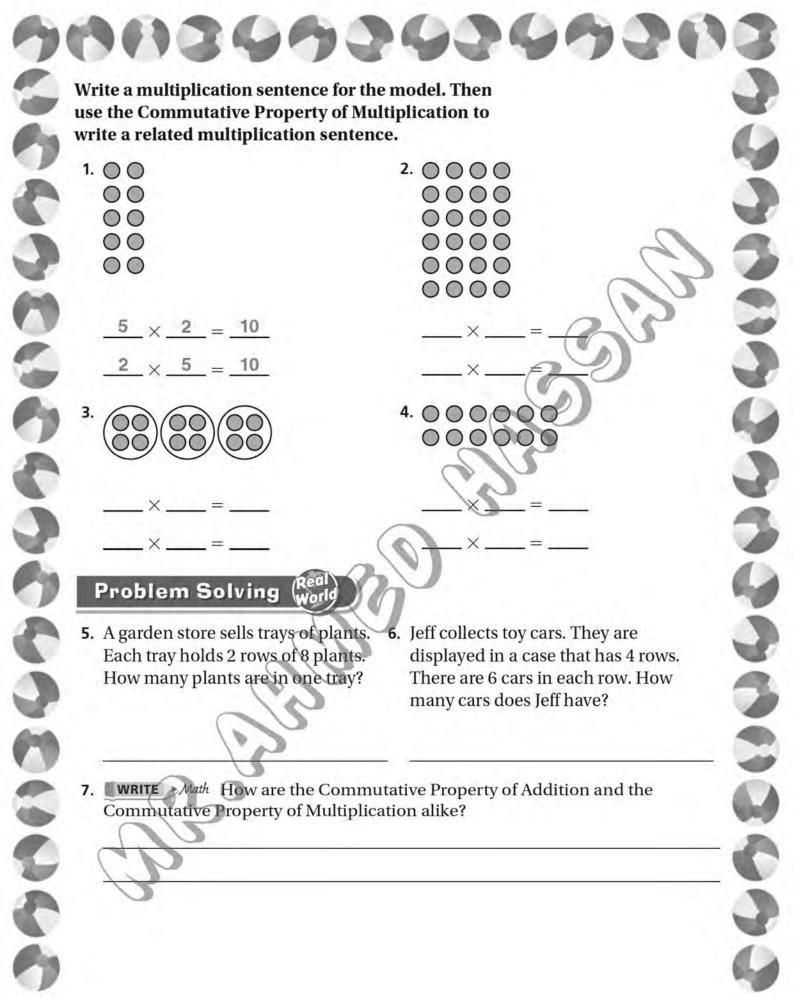
**8.** 
$$3 \times 7 =$$
  $\times 3$  **9.**  $4 \times 5 = 10 \times$ 

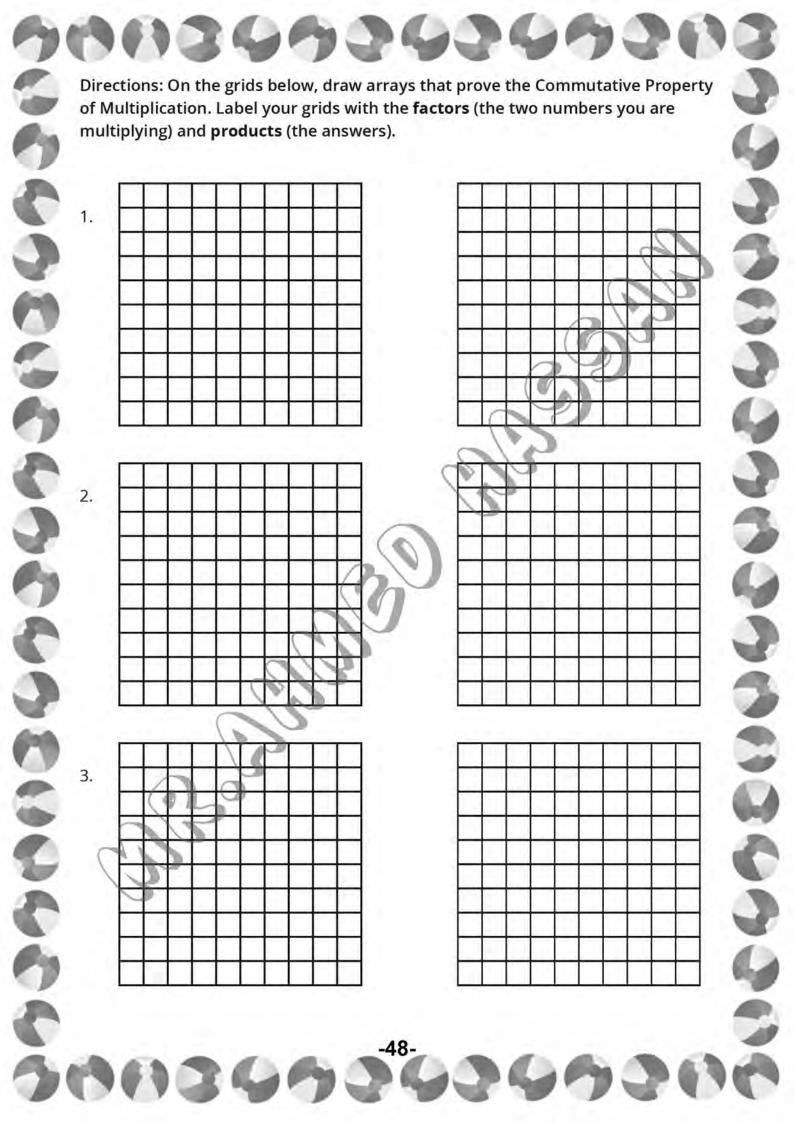
**9.** 
$$4 \times 5 = 10 \times$$

**10.** 
$$3 \times 6 = \times 9$$

**12.** 
$$\times 8 = 4 \times 6$$
 **13.**  $5 \times 8 = 8 \times$ 

**13.** 
$$5 \times 8 = 8 \times$$



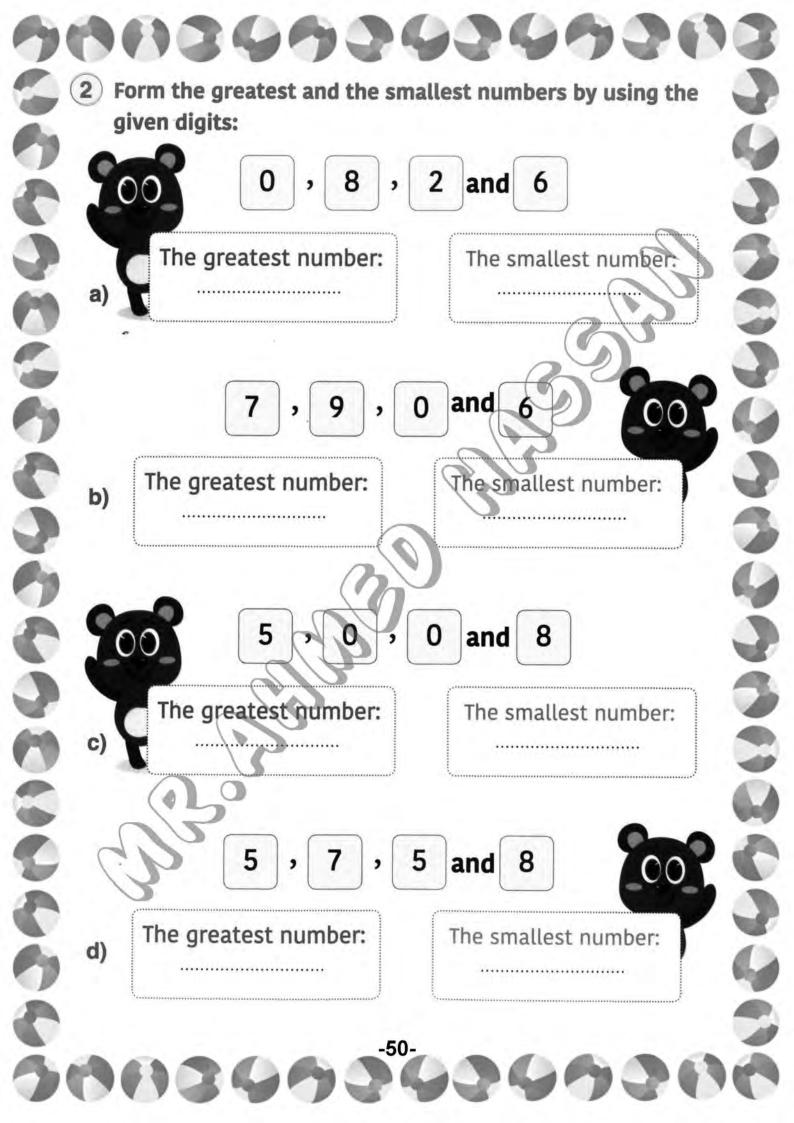


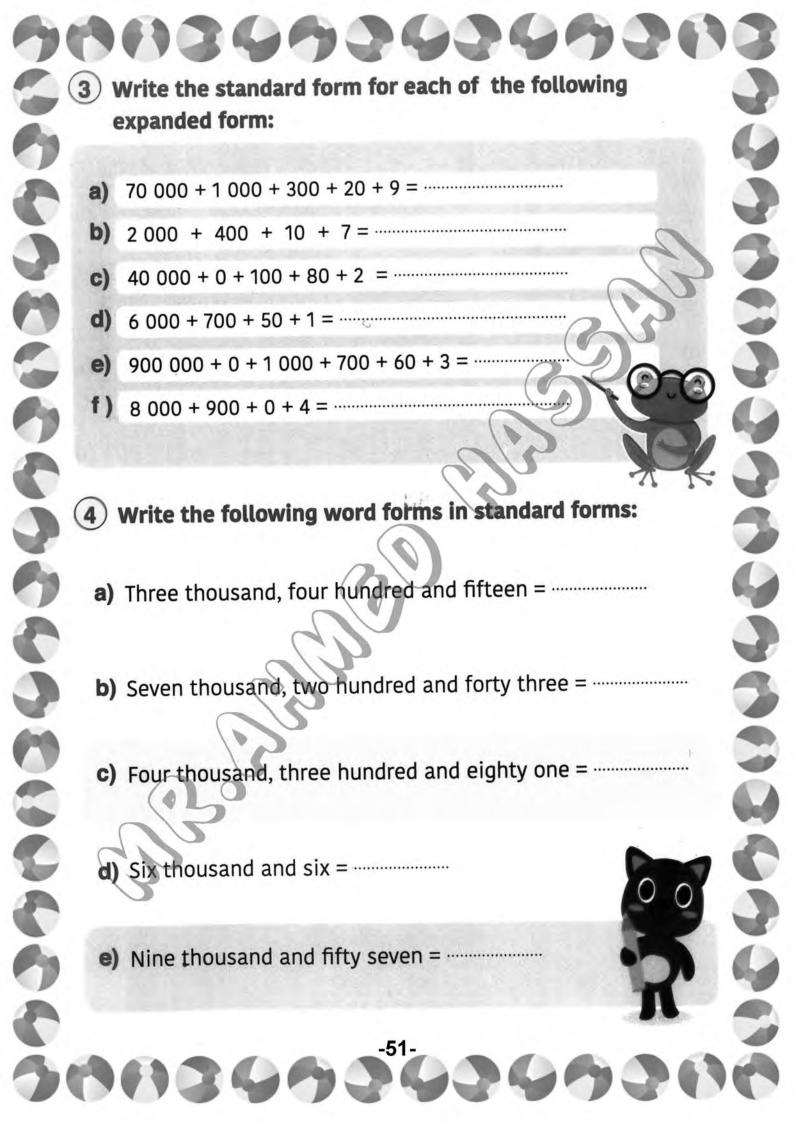
## Exercises on chapter2

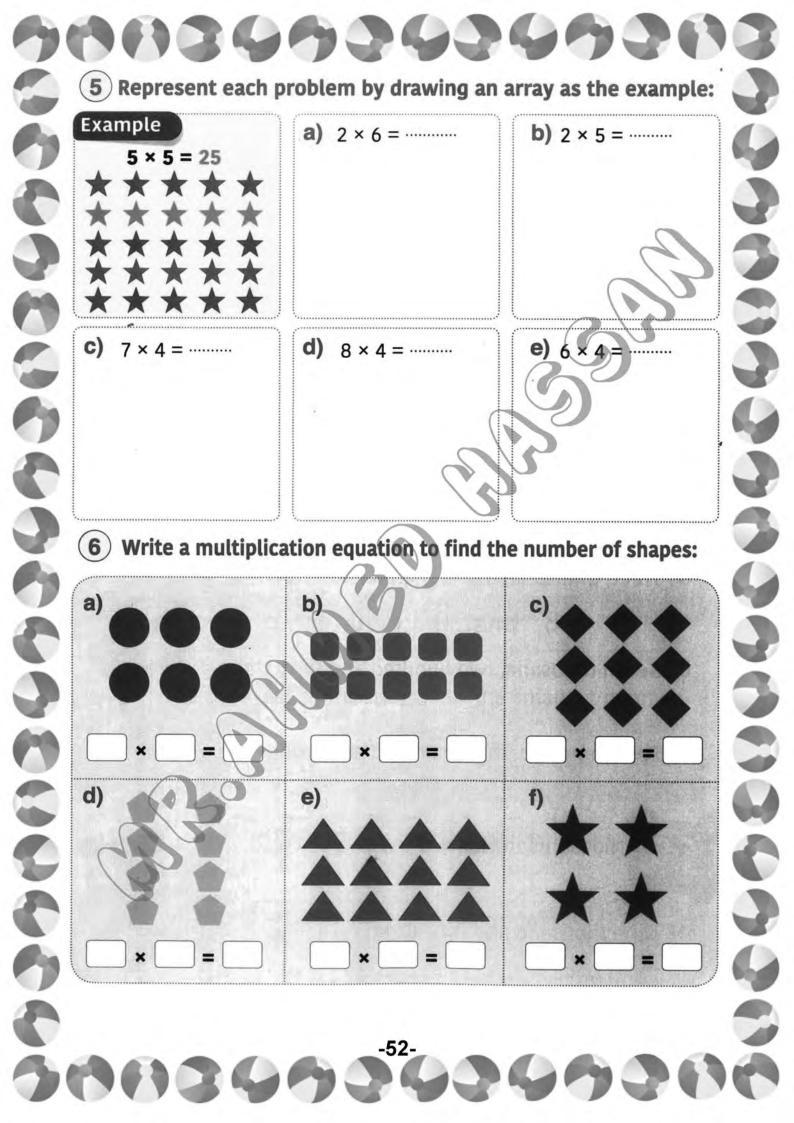
1 Complete the following table as the example:

	Standard form	Base ten form	Expanded form
E	xample		a G
	2,123		2000 + 100 + 20 + 3
)	1,346		+ +
	3,571		++
	2,056		+ + +

000000







## Additional Exercises Complete: 1) 4 Hundreds + 5 Tens + 4 Ones = ..... 2) 4 Hundreds + 6 Tens + 2 Ones = ..... 3) 900 + 40 + 5 = ...... Hundreds + ...... Tens + ...... Ones 4) 4 Hundreds = ..... Tens . 5) 7 Hundreds = ..... 6) The value of digit 5 in the number 675 is ..... represents the number: 8) Seventy-nine thousand four hundred, and ninety-one is written as ..... 9) The value of the digit 9 in the number 796204 is ...... 10) The smallest number formed of the digits 7, 0, 3, 2, 9 is 11) The greatest number formed of the digits 6, 3, 2, 5, 6, 3 is 12) 470 hundreds = ..... tens = ..... 13) 7800 = ..... hundreds = ..... tens . 14) 90 hundreds = ..... tens . 15) The next number in this pattern 7262, 7264, 7266 is 16) The next number in this pattern 7000, 6990, 6980 is ......... -53-

9	000000000000	3
3	Compare using (>), (<) or (=):	9
9	1) 900 + 100 + 129 One thousand, one hundred and twenty-nine.	4
2	2) Five thousand and four 5040.	0
ă	3) 300 + 6 + 60 + 7000 7663.	ă
4	4) 51920 252345.	-
	Arrange ascendingly and descendingly:	-
5	a) 35762, 31672, 760025, 76123	3
9	Ascending order:	0
8	Descending order:	0
ă	b) 47676, (3000 + 200 + 5), (47000 + 149), 76727	à
4	Ascending order:	
	Ascending order	
4	Descending order:	9
0	c) 213977, 230978, 230106, 232767, 239800	3
60	Ascending order	-
-	Descending order:,	0
0	d) 224671, 214761, 247621, 25340, 47821	0
T	Ascending order:,	C
0	Descending order:	9
A		0
A		
	-54-	3
	0039739397	1

# Lessons 21-22: Multiplication Story problems Example problem: Farha went to the store to buy rolls for a big family dinner. At the store, she bought 4 bags of rolls. Each bag contained 5 rolls. How many rolls did Farha buy?

**Work Space:** 

Multiplication equation:

#### PRACTICE:

- · Read each problem carefully.
- Show your thinking with pictures, numbers, and/or words.
- · Record a multiplication equation that represents this problem.
- 1. On Samira's walk home she saw 6 cars. If each car has 4 wheels, how many wheels did she see in all?

**Work Space:** 

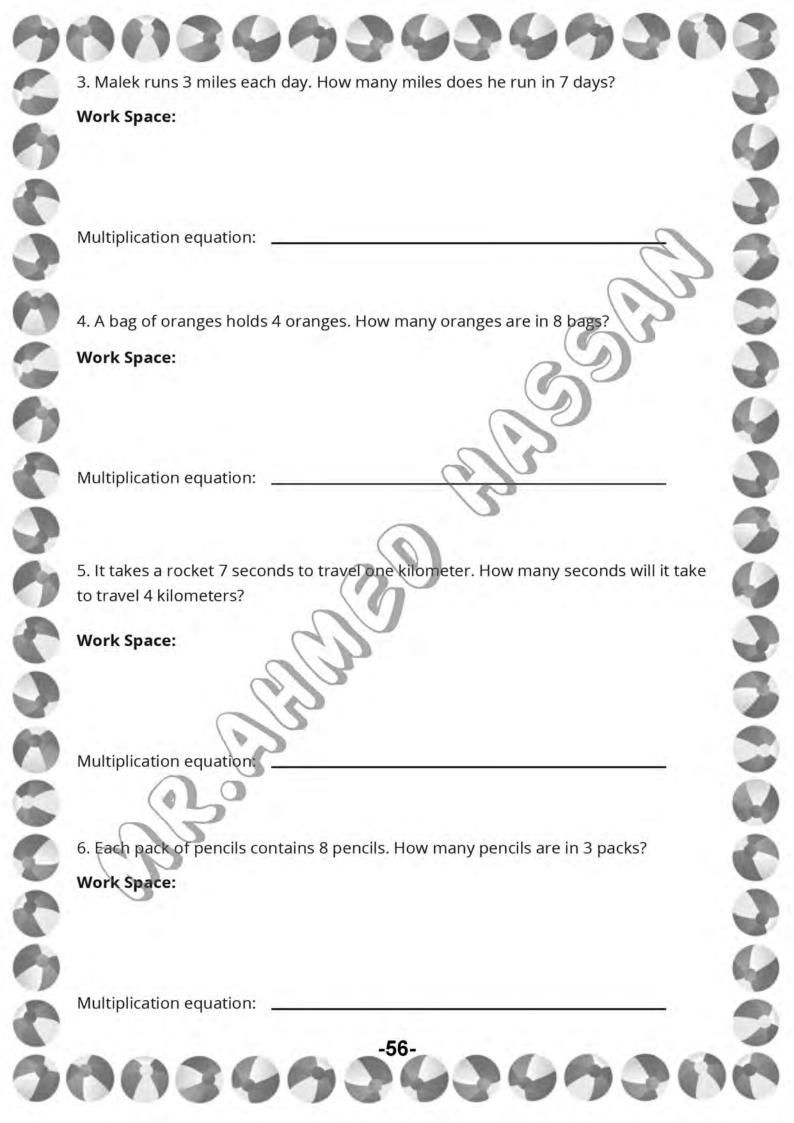
Multiplication equation:

2. Manal brought 6 bags of cookies to school. Each bag had 3 cookies in it. How many cookies were there all together?

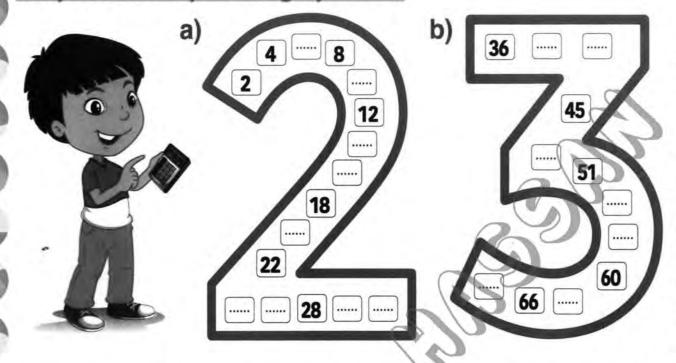
Work Space:

Multiplication equation:

-55-



## Lesson 23: Multiples of 2 and 3 Complete the skip counting by 2 & 3:



## Color the multiples of 2 and multiples of 3 on the 120 chart, then write the first ten of them:

-57-

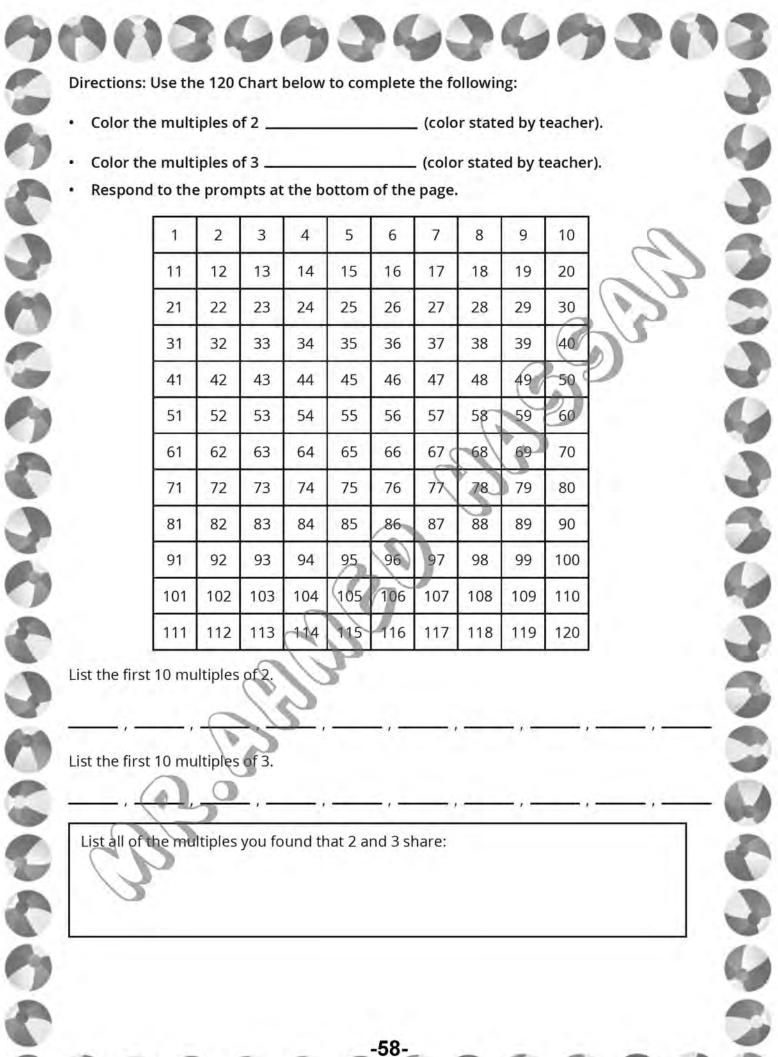
								1 100	
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

#### a) List the first 10 multiples of 2.

] [

#### b) List the first 10 multiples of 3.

		7



#### ECK What You Know

#### Multiply.

- 1. 6  $\times 0$

- 5

5. There is 1 student sitting at each of the 9 tables in the cafeteria. How many students are there altogether?

#### Find the product.

1. 
$$1 \times 4 = 4$$

**2.** 
$$0 \times 8 =$$

3. 
$$0 \times 4 =$$
\_\_\_\_

5. 
$$3 \times 0 =$$
 6.  $0 \times 9 =$ 

6. 
$$0 \times 9 = _{\_\_}$$

7. 
$$8 \times 1 =$$

8. 
$$1 \times 2 =$$

9. 
$$10 \times 1 =$$
\_\_\_\_

10. 
$$2 \times 0 =$$

**12.** 
$$1 \times 0 =$$

**13.** 
$$0 \times 0 =$$
 **14.**  $1 \times 3 =$ 

**14.** 
$$1 \times 3 =$$

15. 
$$9 \times 0 =$$
\_\_\_\_

**16.** 
$$1 \times 1 =$$

#### Problem Solving (Real Work

- 17. Peter is in the school play. His teacher gave 1 copy of the play to each of 6 students. How many copies of the play did the teacher hand out?
- **18**. There are 4 egg cartons on the table. There are 0 eggs in each carton. How many eggs are there in all?

19. WRITE Math One group has 5 people, and each person has 1 granola bar. Another group has 5 people, and each person has 0 granola bars. Which group has more granola bars? Explain.

## esson 24: Multiples of 5 and 10 Write the missing multiples: a) b) c) -60-

#### Multiply with 5 and 10

#### Find the product.

1. 
$$5 \times 7 = 35$$

**2.** 
$$5 \times 1 =$$

3. 
$$2 \times 10 =$$

**2.** 
$$5 \times 1 =$$
 **3.**  $2 \times 10 =$  **4.**  $= 8 \times 5$ 

5. 
$$1 \times 10 =$$

$$6. = 4 \times 5$$

$$= 4 \times 5$$
 7.  $5 \times 10 =$ 

10. 
$$10 \times 7$$

#### Problem Solving

- 17. Ginger takes 10 nickels to buy some pencils at the school store. How many cents does Ginger have to spend?
- 18. The gym at Evergreen School has three basketball courts. There are 5 players on each of the courts. How many players are there?
- 19. WRITE Math Michelle bought some pinwheels for a dollar and paid in dimes. How many dimes did she use? Explain.

### Facts Practice

Find the product as fast as you can. Multiply.

**23.** 
$$0 \times 3$$

**26.** 
$$10 \times 7$$

**31.** 
$$1 \times 0$$

**33.** 
$$4 \times 7$$

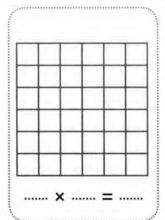
-62-

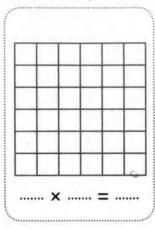
**39.** 
$$1 \times 5$$

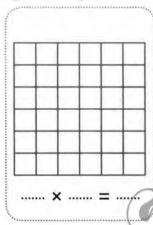
**40.** 
$$0 \times 4$$

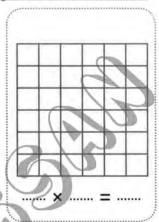
## 1039399999999 Lesson 25: The Factors

#### Color the factors of 6 by drawing arrays to represent them:



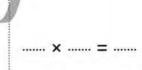






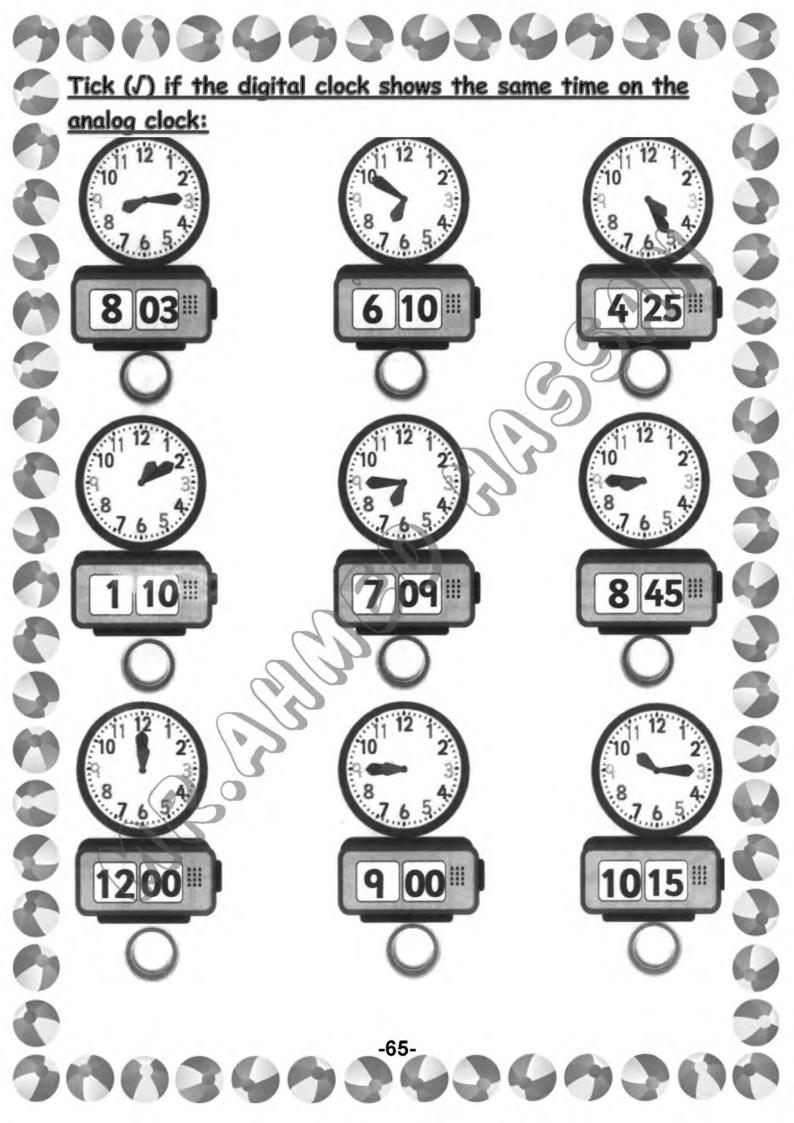
## Find the factors of 10 by drawing arrays of to represent them:

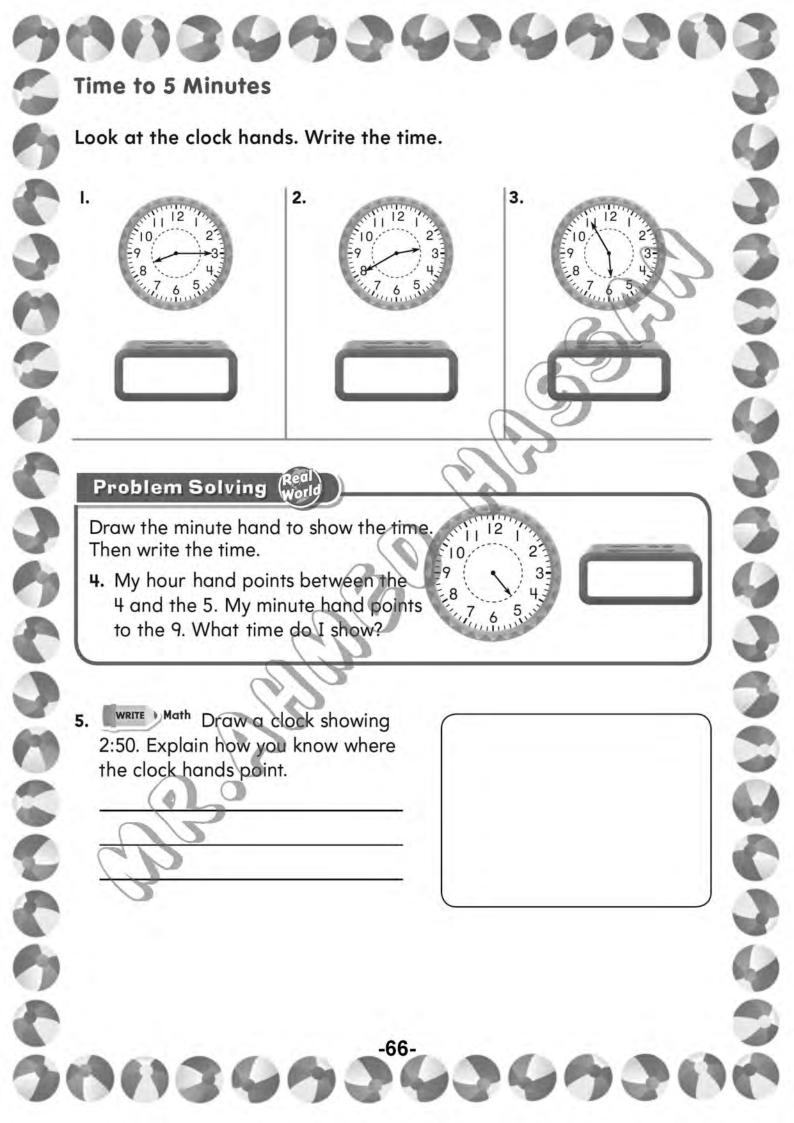




So, the factors of number 10 are ...... , ...... and ...... .

## essons 26-27: Read and write digital time Match each analog clock with its digital time: a) 7 15 2 30 b) 15 c) 5 30 00 6 15 10 30 3 45 -64-





#### **Guided Practice** Ask Yourself At what time do I Tell what time it will be. start counting? . Do I need to count 1. in 3 hours 2. in 20 minutes in 45 minutes hours?







· Do I need to count minutes?

Explain Your Thinking Visiting hours at the animal shelter are from 9:00 A.M. to 11:30 A.M. on Saturday. How long is that?

#### Practice and Problem Solving

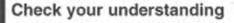
Tell what time it will be.

- 4. in 5 minutes
- 5. in 35 minutes
- 6. in 1 hour
- 7. in 3 hours









Write the time in at least two ways.





3.

-67-





#### Write how much time has passed.

- 5. A game starts at 4:30 P.M. It ends at 6:00 P.M.
- A movie starts at 7:30 P.M. It ends at 8:45 P.M.
- A phone call starts at 11:05 A.M. It ends at 11:17 A.M.
- A meeting starts at 11:30 A.M. It ends at 1:15 P.M.

## MATH BOARD Share and Show 1. Find the elapsed time. from 1:15 P.M. to 1:40 P.M. Find the elapsed time. End: 5:00 P.M. **② 2.** Start: 11:35 a.m. End: 11:55 a.m. **♂ 3.** Start: 4:20 P.M. On Your Own MATHEMATICAL 5 Use Appropriate Tools Find the elapsed time. 4. Start: 8:35 P.M. End: 8:55 P.M. 5. Start: 10:10 A.M. End: 10:40 A.M. 6. Start: 9:25 A.M. 7. Start: 2:15 p.m. End: 2:50 p.m. End: 9:40 A.M.

#### **Measure Time Intervals**

#### Find the elapsed time.

1. Start: 8:10 A.M. End: 8:45 A.M.



35 minutes

2. Start: 6:45 P.M. End: 6:50 P.M.



3. Start: 3:00 p.m. End: 3:35 p.m.



4. Start: 5:20 A.M. End: 5:45 A.M.



#### Problem Solving (Real World

- **5.** A show at the museum starts at 7:40 P.M. And ends At 7:55 P.M. How long is the show?
- **6.** The first train leaves the station at 6:15 A.M. The second train leaves at 6:55 A.M. How much later does the second train leave the station?
- 7. WRITE Math Describe two different methods to find the elapsed the from 2:30 p.m. to 2:55 p.m.

## ## CHALLENGE: Time Story Problems

1. Your mom puts muffins in the oven at 7:00. When you take them out, the clock looks like this:



How many minutes did it take to bake the muffins?

2. You leave school at 3:00 and when you get home the clock looks like this:

How many minutes did it take you to walk home?

3. If it takes you 45 minutes to walk home from school and you leave at 3:00, what time will it be when you get home? Draw the time on the clock.

## Lessons 28-29: Dividing into equal groups

Draw a circle around the correct number of stars to show each division problem. Complete each number sentence.



$$\Rightarrow \lesssim$$















































#### ACTIVITY

@ Group 12 counters 3 at a time. How many groups are there?

Step 1 Count out 12 counters.

Step 2 Make equal groups of 3 until all the counters are gone.

There are 4 equal groups of 3.

So,  $12 \div 4 = 3$ .

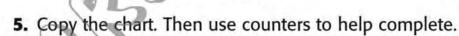
Think About It

2000

- 1. Explain how you divided 12 counters into equal groups.
- 2. When you divided the counters into groups of 3, how did you find the number of equal groups?

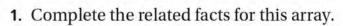
#### CHECK What You Know

- **3.** Make equal groups to find the number of counters in each group.
- **4.** Find the number of equal groups of 5.



1	Number of Counters	Number of Equal Groups	Number in Each Group	Division Sentence
	9	3	3	$9 \div 3 = 3$
I	14	2		
İ	15		5	
Ì	6		3	

## Lesson 30: The relation between multiplication and dividision



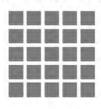


$$2 \times 8 = 16$$

$$16 \div 2 = 8$$

Write the related facts for the array.

2.

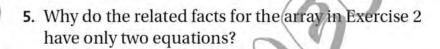


₫3.

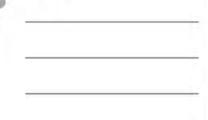


₫4.





Write the related facts for the set of numbers.



Complete the related facts.

9. 
$$4 \times 7 =$$
\_\_\_\_

$$7 \times = 28$$

$$28 \div 4 =$$

10. 
$$5 \times _{--} = 30$$

$$30 \div 6 =$$
\_\_\_\_

$$30 \div 5 =$$

-73-

$$_{--} \times 3 = 27$$

$$= \div 9 = 3$$

$$27 \div _{--} = 9$$

#### Complete the equations.







5 rows of 
$$_{4} = 20$$

$$3 \text{ rows of} = 24$$

$$5 \times _{4} = 20$$

$$4 \times \underline{\hspace{1cm}} = 24$$

$$20 \div 5 = 4$$

$$24 \div 4 =$$
\_\_\_\_\_

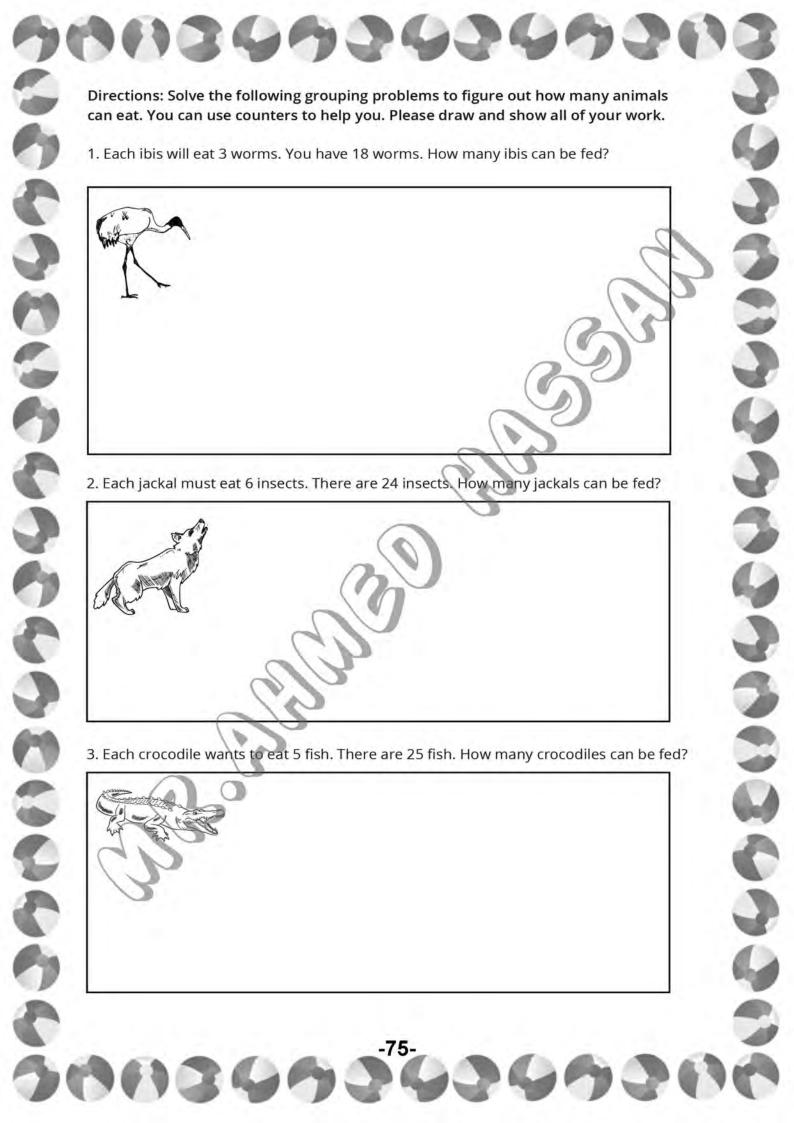
#### Complete the equations.

**4.** 
$$4 \times \underline{\hspace{1cm}} = 28 \hspace{1cm} 28 \div 4 = \underline{\hspace{1cm}} \hspace{1cm}$$
 **5.**  $6 \times \underline{\hspace{1cm}} = 36 \hspace{1cm} 36 \div 6 = \underline{\hspace{1cm}}$ 

$$36 \div 4 =$$
\_\_\_\_\_

#### Problem Solving

- 8. Mr. Martin buys 36 muffins for a class breakfast. He places them on plates for his students. If he places 9 muffins on each plate, how many plates does Mr. Martin use?
- 9. Ralph read 18 books during his summer vacation. He read the same number of books each month for 3 months. How many books did he read each month?
- 10. WRITE Math Use examples to show that multiplication and division are inverse operations.

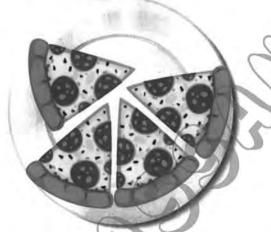


Directions: Find the missing factor in the triangles below. Then write the four equations that go with the fact family. Use the counters to help you. 18 24 6 3 × X 28 21 7 4 × × × -76-

## Exercises on chapter3

1 Form the multiplication equation of the problem:





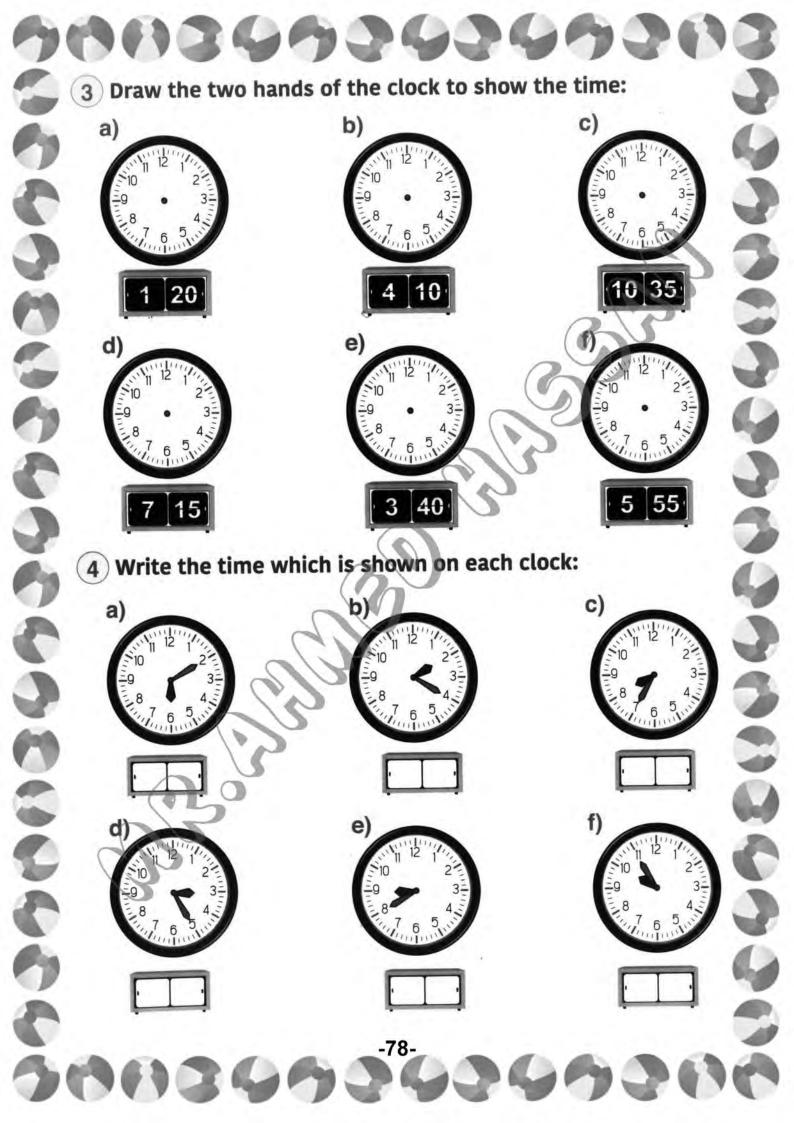
Ahmed packed the pieces of pizza into groups, each one has pieces of pizza.

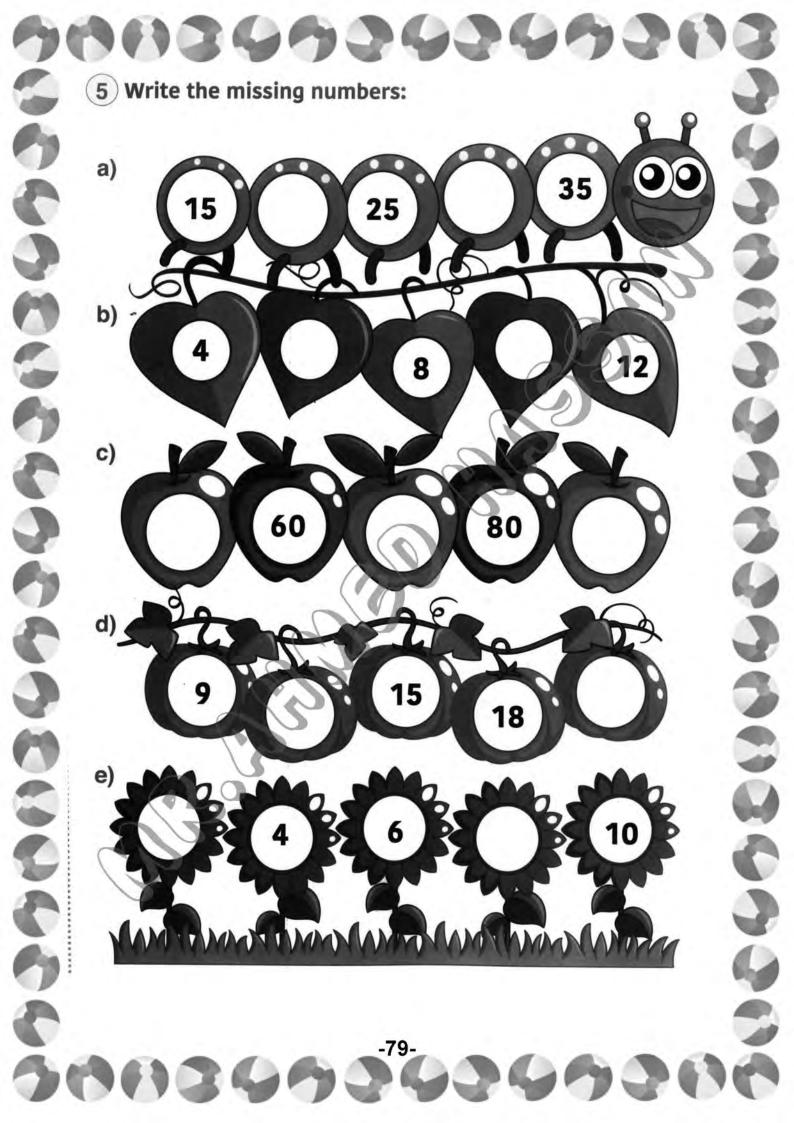
Then the multiplication equation is: ----- × ------

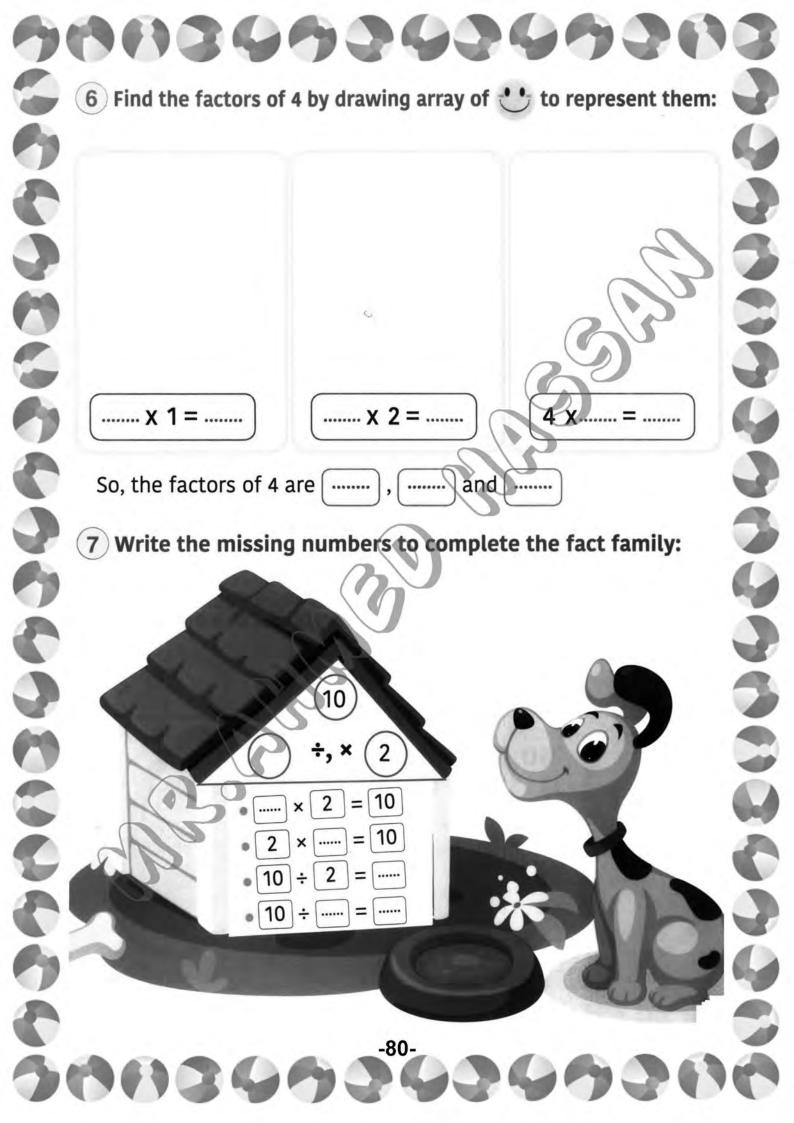
2 Form the multiplication equation to calculate the number of fish in all fishbowl:

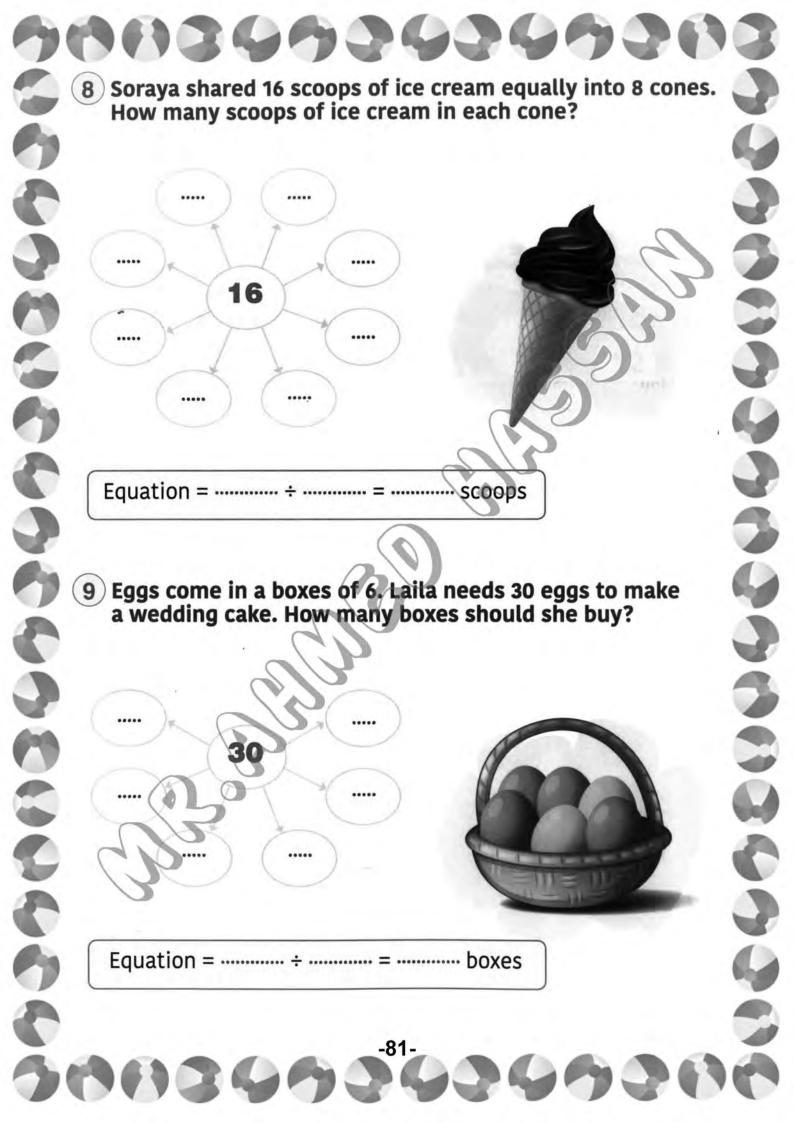


The multiplication equation is: ----- × ------



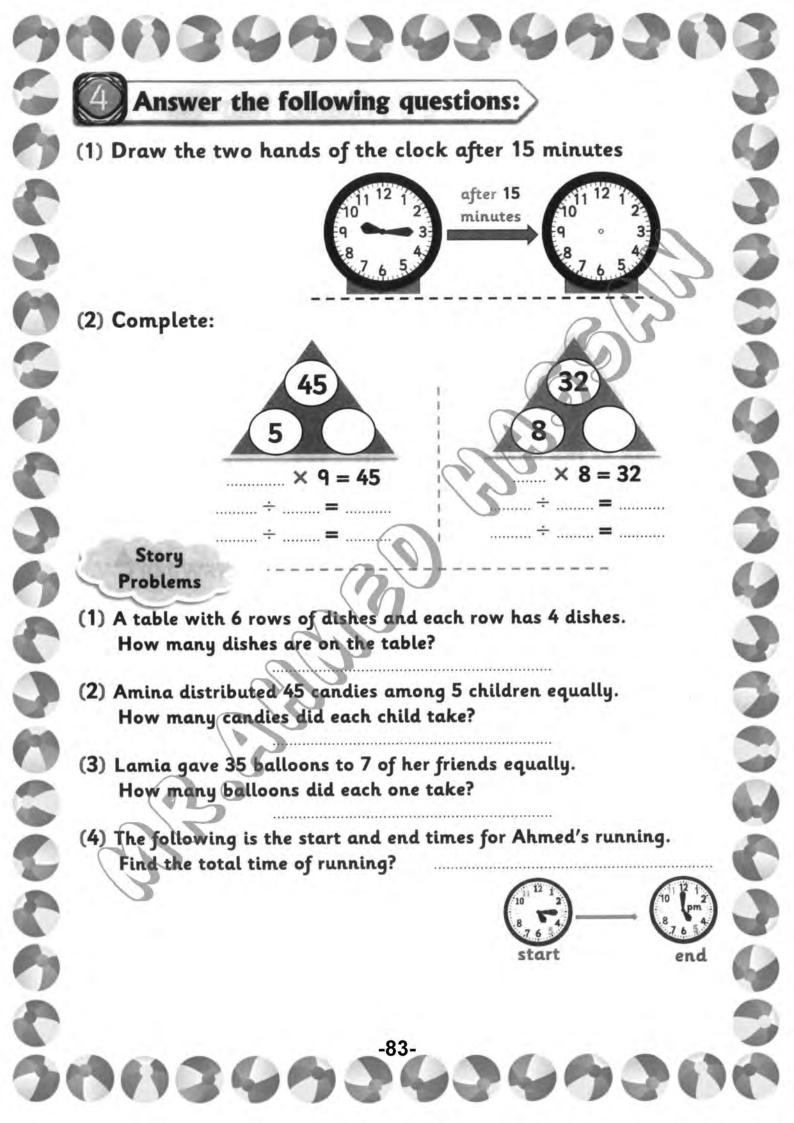






### Additional Exercises **Complete:** is a multiple of 8. 2 36 is a multiple of ...... are common multiples of 2 and 3. is a common multiple of 2, 3, 6. 5. When the minute hand points to 7, the number of minutes minutes it represents is = 6. If the time is 8:15, that means the minute hand points to number ...... on the clock. Write the missing numbers: 4 × 6 = ..... 7 × 8 = $\times$ 4 = 12 Write the time:



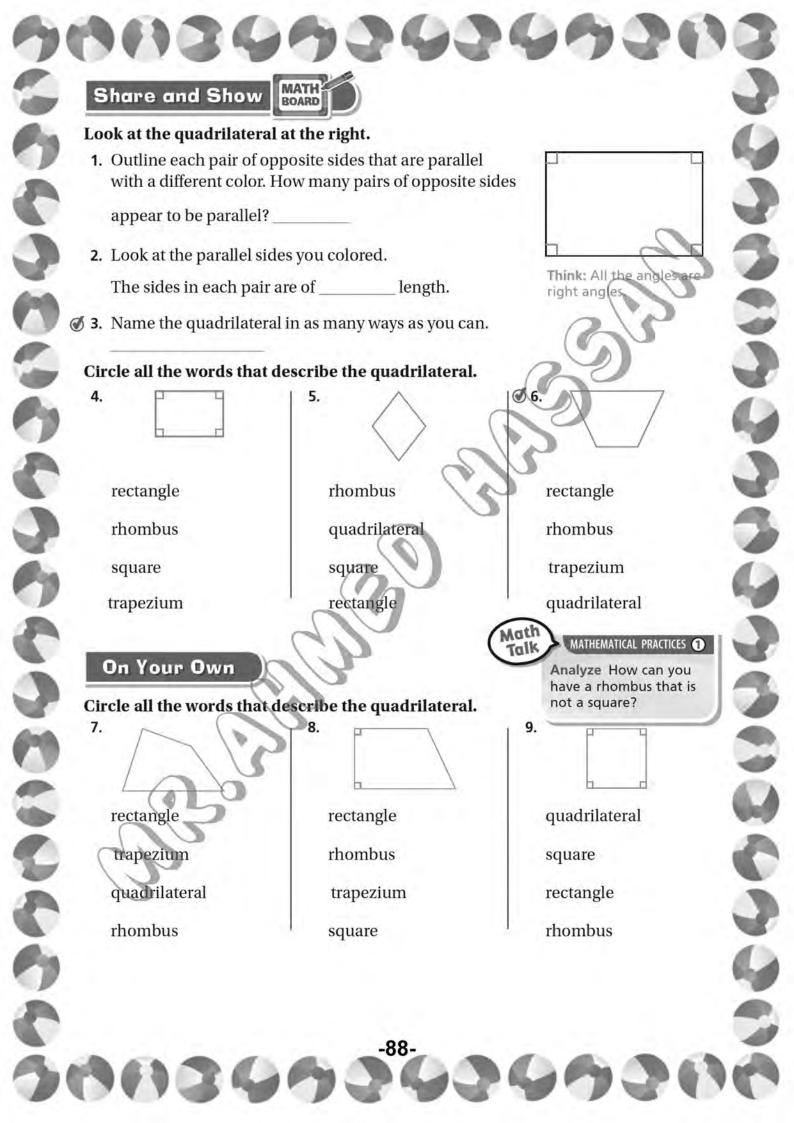


### Lesson 31: Polygons Complete: 1) The shapes with 4 vertices and 4 sides are called 2) The shape with 4 equal sides and not a square is called ..... 3) The shape with only 2 parallel sides is called... 4) The shape with 2 short equal sides and 2 long equal sides is called 5) The trapezium is a quadrilateral because it has ..... sides and ...... vertices. 6) The number of sides of the = ..... sides. 8) The rectangle and square are .....-dimensional shapes. 9) The shape Color the quadrilaterals in red:

#### ∠What You Know Classify each polygon. 1. 2. 3. 4. 6. REST AREA NO 2 km PASSING 7. Bryson drew a square. Then he drew a triangle on top of it. What is the new polygon called? Talk About It Explain why the shape of the tamborine is not a polygon. EXTRA PRA Practice and Problem Solving See page R26. Classify each polygon. 10. 9. 11. 12. 14. 13. 16. What three-sided polygon do you 15. What is the shape of a get when you fold a square in half, door? corner to corner? -85-

## Lesson 32: Quadrilaterals Sort the following quadrilaterals, then fill the Venn diagram by drawing each shape: Each 2000 osixe sides are equal 4 vertices are the same 90000 . Which quadrilateral has 4 equal sides and 4 vertices that are the same? .....

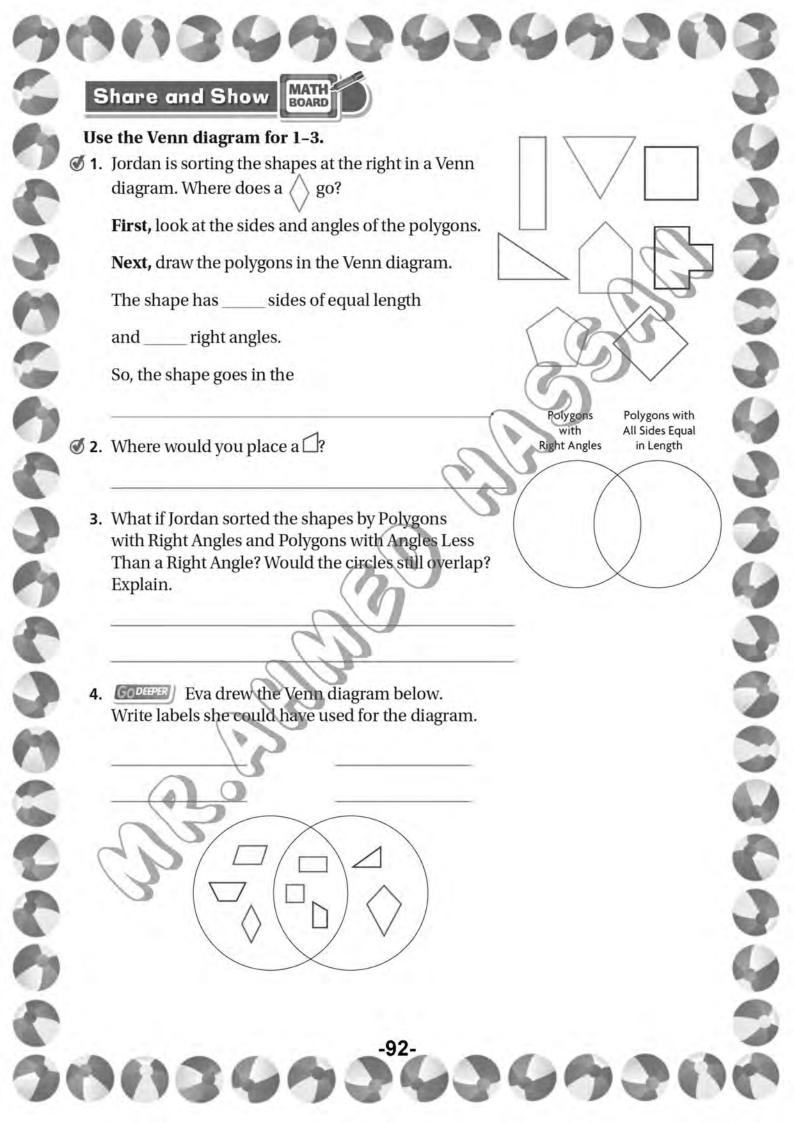
# Lesson 33: Trapezium Color as required: a) The quadrilateral of only two parallel sides in red. b) The quadrilateral in which each two opposite sides are equal and parallel in green. c) The shapes that are not polygons in yellow.



#### Classify Quadrilaterals Circle all the words that describe the quadrilateral. 2. 1. 3. square square square rectangle rectangle rectangle rhombus rhombus rhombus trapezium trapezium trapezium Use the quadrilaterals below for 4-6. D 5. Which quadrilaterals 4. Which quadrilaterals 6. Which quadrilaterals appear to have 4 right appear to have 4 sides appear to have no right angles? angles? of equal length? Problem Solving 7. A picture on the wall in Jeremy's classroom has 4 right angles, 4 sides of equal length, and 2 pairs of opposite sides that are parallel. What quadrilateral best describes the picture? -89-

#### Problem Solving • Classify Plane Shapes Essential Question How can you use the strategy draw a diagram to classify Unlock the Problem A **Venn diagram** shows how sets of things are Rhombuses Rectangles related. In the Venn diagram at the right, one circle has shapes that are rectangles. Shapes that are rhombuses are in the other circle. The shapes in the section where the circles overlap are both rectangles and rhombuses. What type of quadrilateral is in both circles? Solve the Problem Read the Problem What is true about all quadrilaterals? What do I need to find? Which quadrilaterals always have 2 pairs of opposite sides that are parallel? What information do I need Which quadrilaterals always have 4 sides of to use? equal length? the circles labeled and Which quadrilaterals always have 4 right angles? The quadrilaterals in the section where the How will I use the circles overlap always have \_\_\_\_ pairs of information? opposite sides that are parallel, \_\_\_\_ sides of equal length, and \_\_\_\_ right angles. are in both circles. So, Math MATHEMATICAL PRACTICES 1 Talk Make Sense of Problems Does a fit in the Venn diagram? Explain. -90-

#### Try Another Problem Polygons with Quadrilaterals Right Angles The Venn diagram shows the shapes Andrea used to make a picture. Where would the shape shown below be placed in the Venn diagram? Solve the Problem Read the Problem Record the steps you used to What do I need to find? solve the problem. What information do I need to use? How will I use the information? 1. How many shapes do not have right angles? 2. How many red shapes have right angles but are not quadrilaterals? Math MATHEMATICAL PRACTICES 1 Talk 3. MATHEMATICAL 2 Reason Abstractly What is a different Make Sense of way to sort the shapes? Problems What name can be used to describe all the shapes in the Venn diagram? Explain how you know. -91-



#### Solve each problem.

 Steve drew the shapes below. Write the letter of each shape where it belongs in the Venn diagram.











2. Janice drew the shapes below. Write the letter of each shape where it belongs in the Venn diagram.









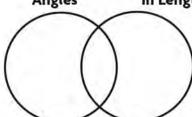
- Triangle Right Angle
  - All Sides of Equal Length

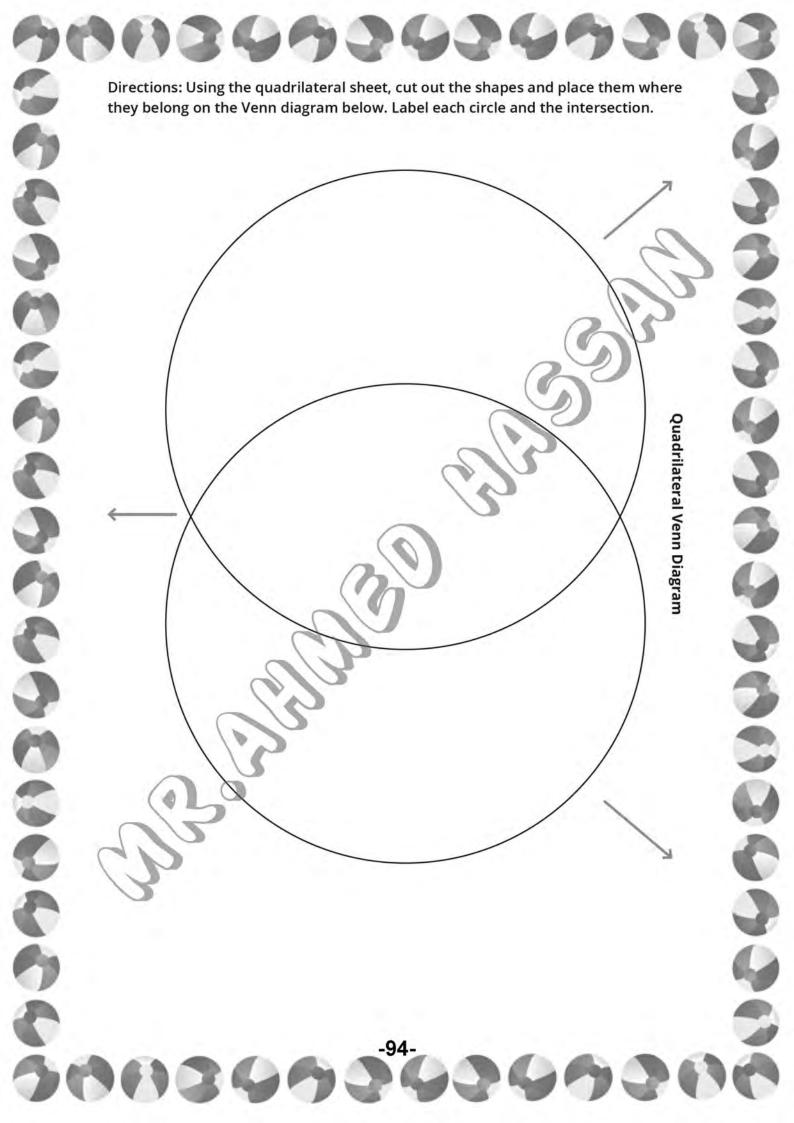
3. WRITE Math Draw a Venn diagram with one circle labeled Quadrilaterals and the other circle labeled Polygons with More Than 3 Sides. Draw at least two shapes in each section of the diagram. Explain why you drew the shapes you chose in the overlapping section

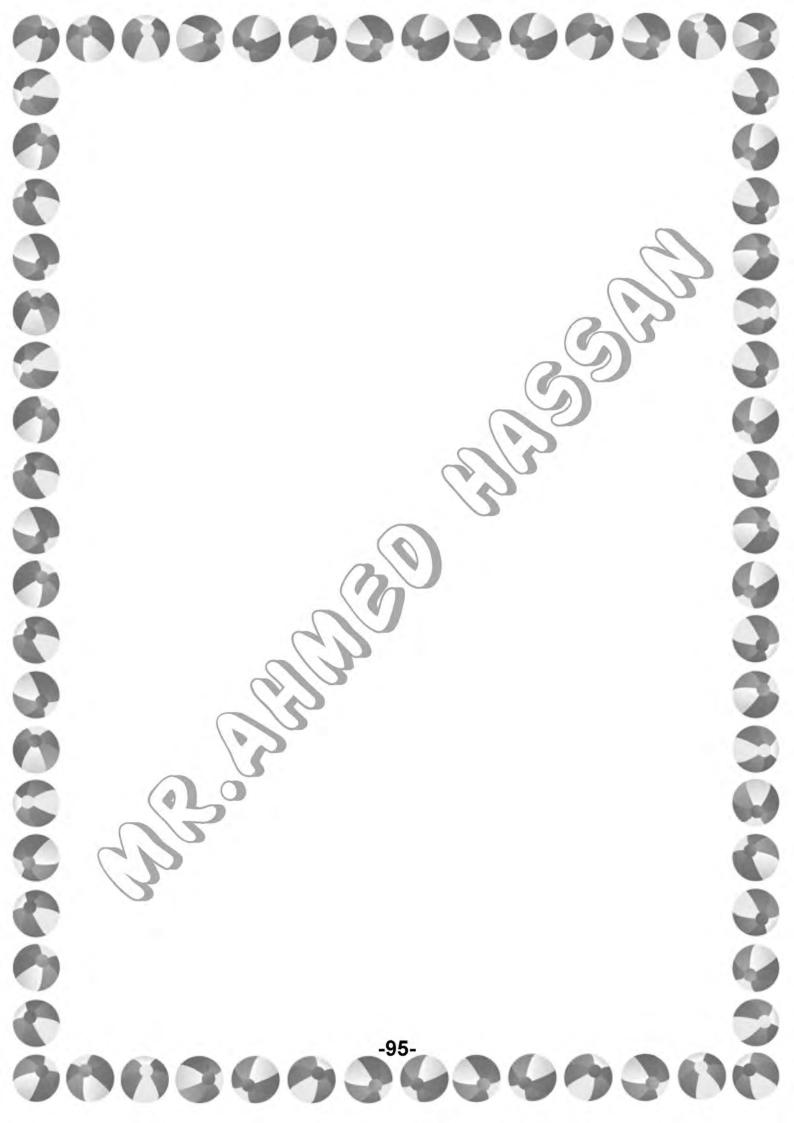
#### Lesson Check

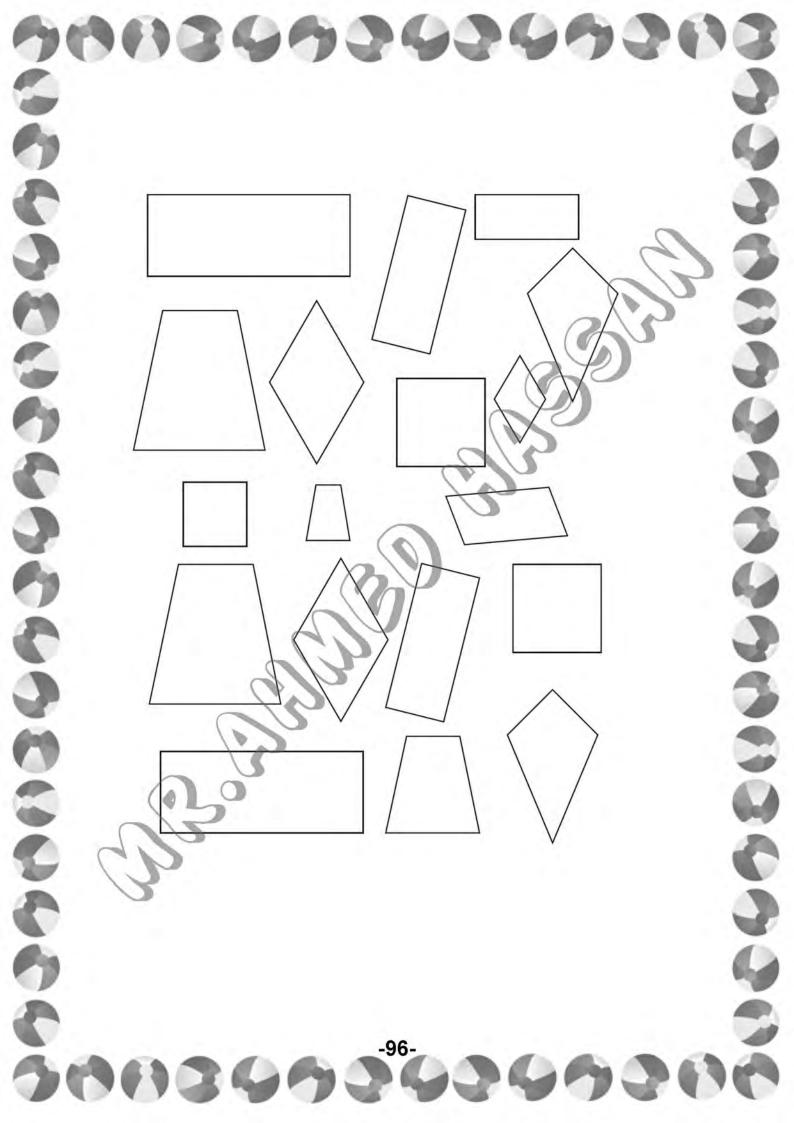
- 1. What shape would go in the section where the two circles overlap?
- 2. What quadrilateral could NOT go in the circle labeled *Polygons with All Sides Equal in Length*?

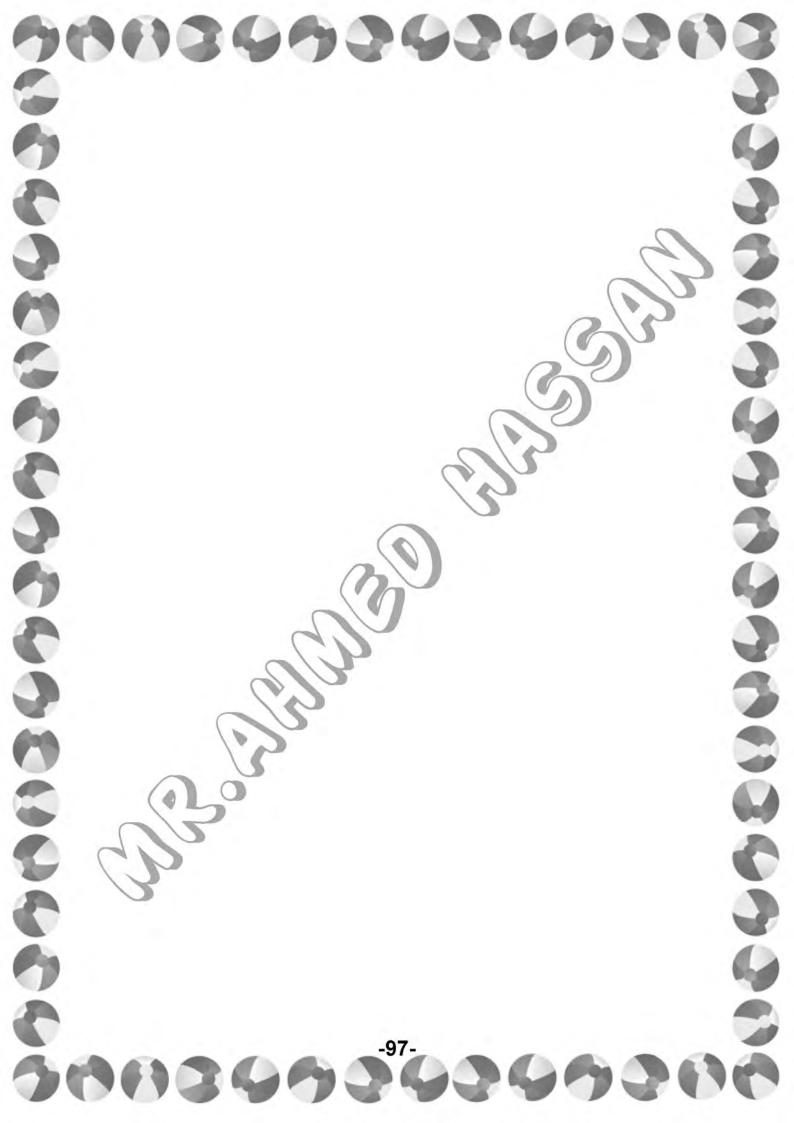
Quadrilaterals with 4 Right Angles Polygons with All Sides Equal in Length





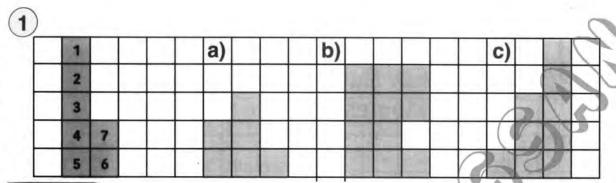






## Lessons 34-37: The Area

#### Find the area of these gardens:



#### Example

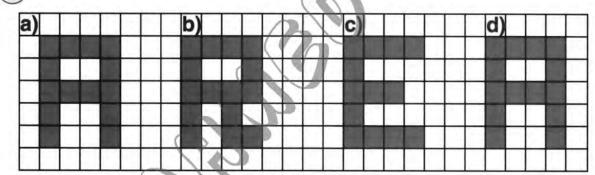
Area = 7 square units

Area = ······ square units

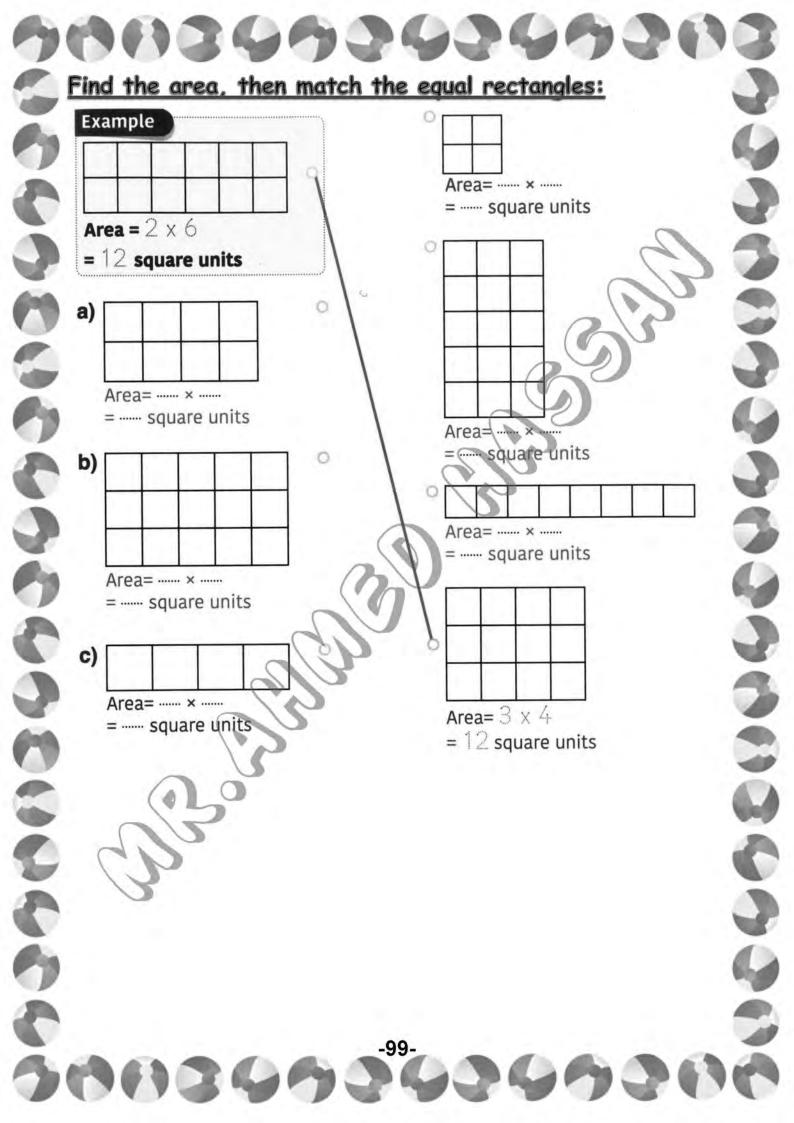
Area = ---- square units

Area = ······ square units

2



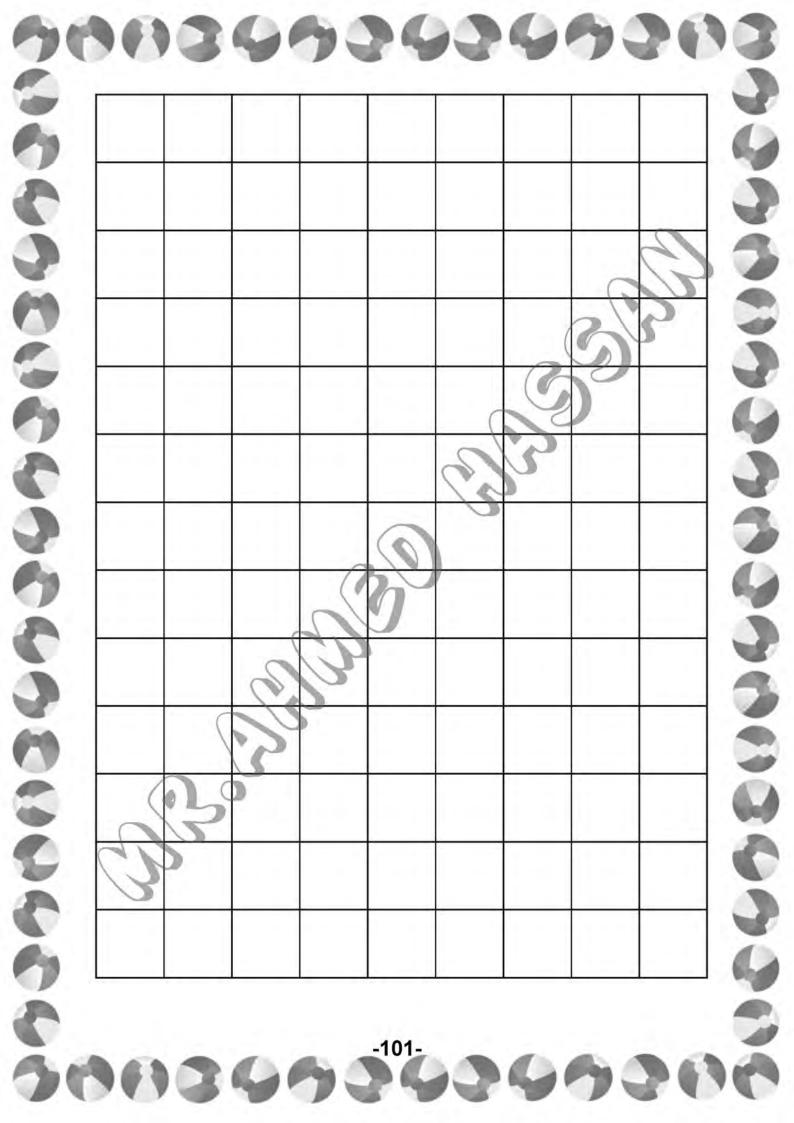
-98-

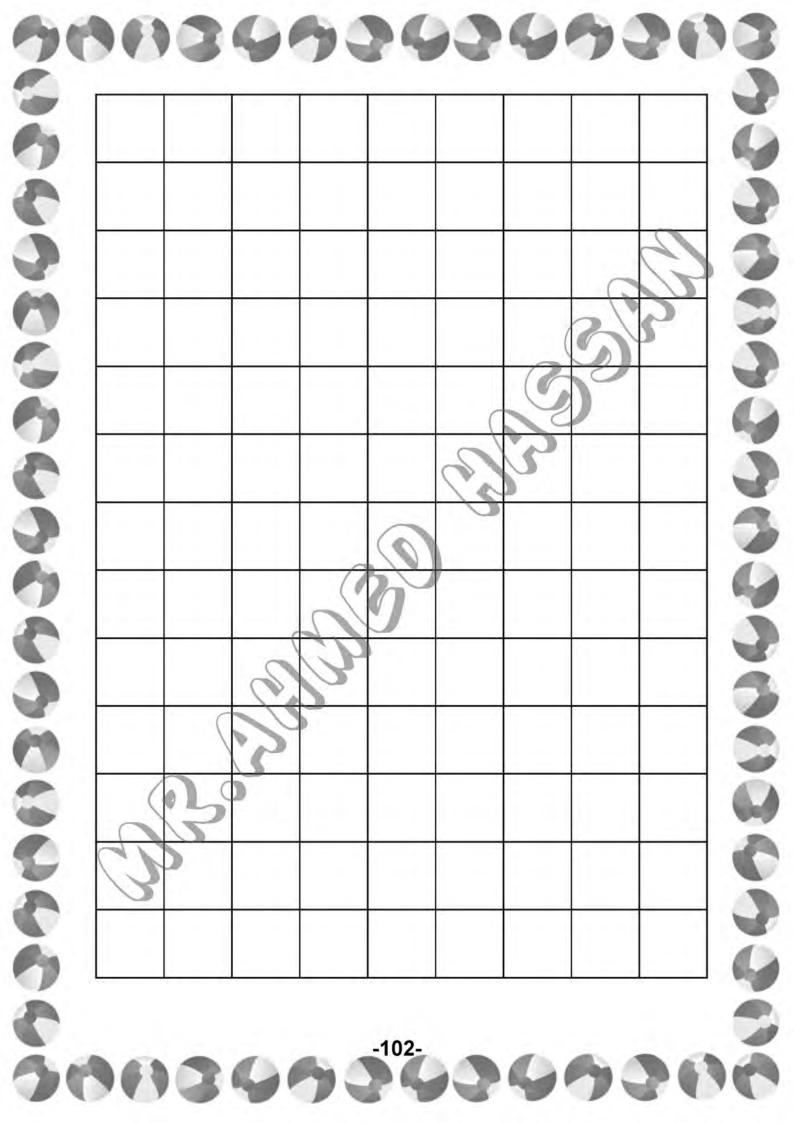


- 1. Read the problem and then build the garden plot using the small squares.
- 2. Draw the garden plot on the grid paper. (Hint: You can place your squares on the grid to help you draw the outlines of the garden plot.)
- 3. Find the total area of the garden plot (array).
- 4. Repeat for all garden plots.

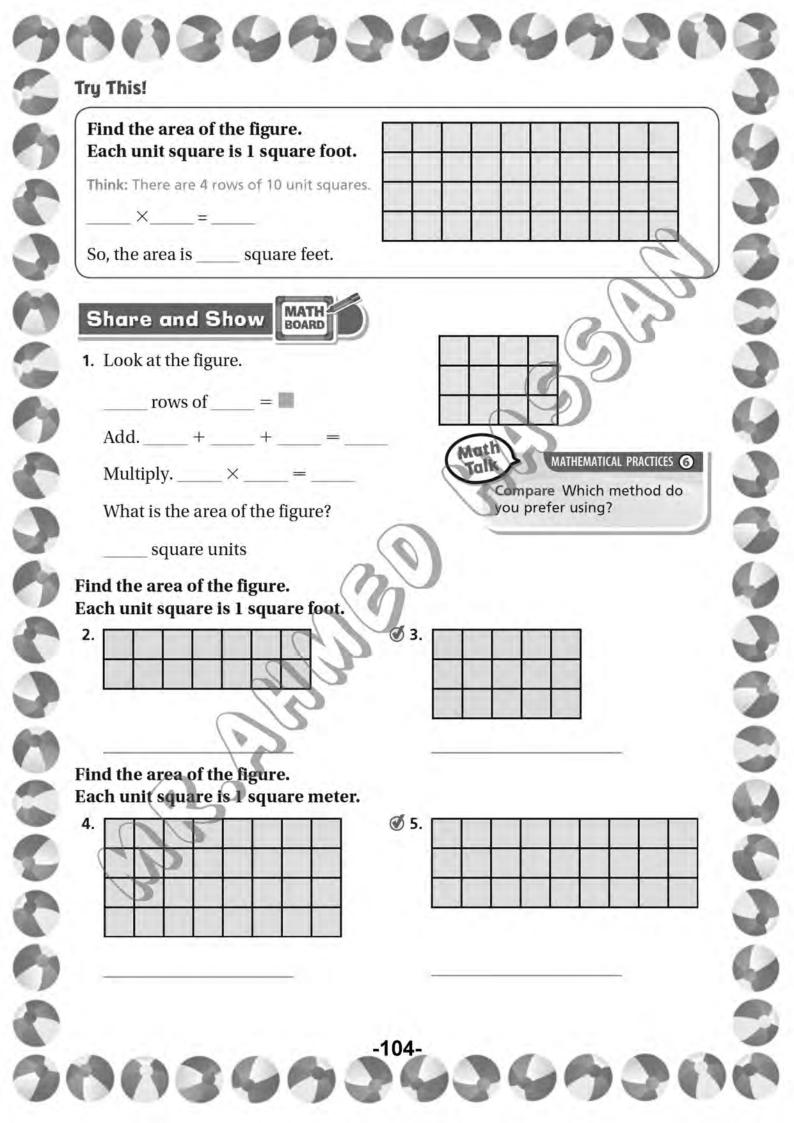
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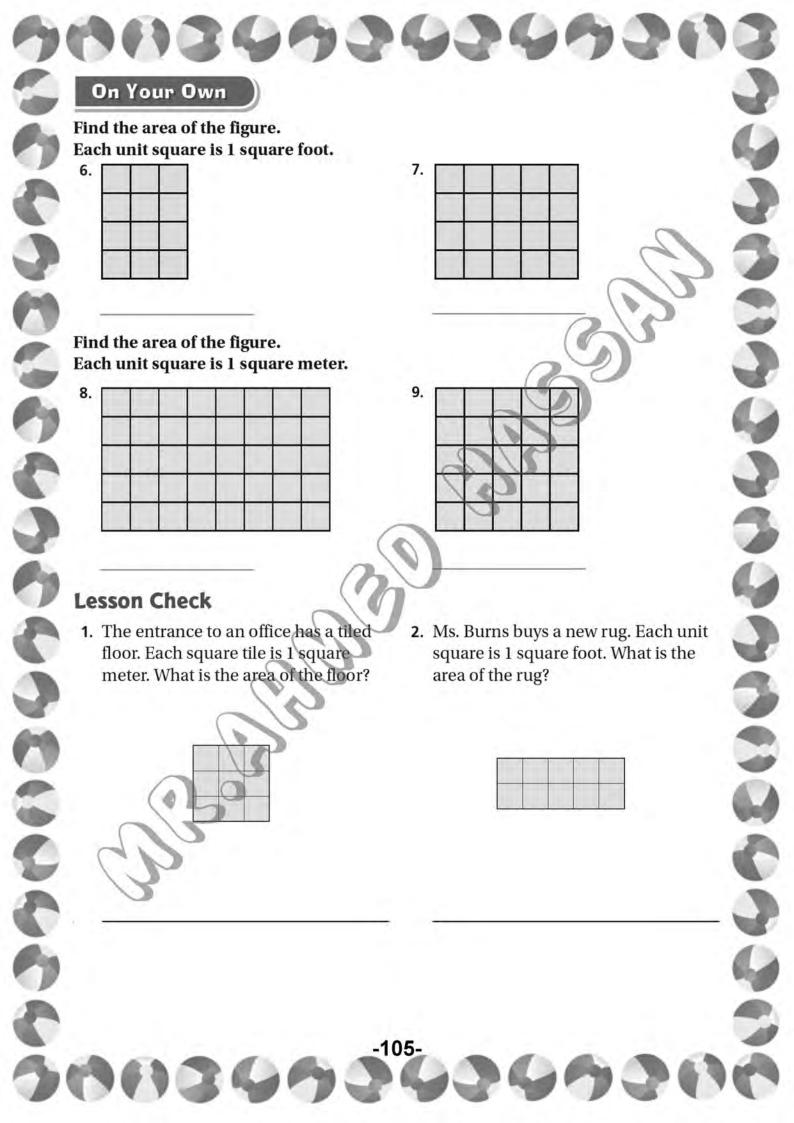
GARDEN PLOT PROBLEMS	ANSWERS
<b>Garden Plot #1:</b> Jana is planting squash. Each squash needs 1 square unit of space. She would like the garden to have 2 rows with 9 square units in each row. How many squash can she fit? What is the area of her garden in square units?	3
Garden Plot #2: Omar wants to plant corn. Corn needs 1 square unit of space. He would like the garden to have 3 rows with 7 square units in each row. How much corn can Omar fit in his garden? What is the area of his garden in square units?	
Garden Plot #3: Youssef loves watermelon and wants to plant it in his garden. Watermelon needs 1 square unit of space. He would like the garden to have 4 rows with 4 square units in each row. How many watermelons can Youssef fit in his garden? What is the area of his garden in square units?	
Garden Plot #4: Nadia wants to plant zucchini. Zucchini needs 1 square unit of space. She would like the garden to have 3 rows with 4 square units in each row. How much zucchini can Nadia fit in her garden? What is the area of her garden in square units?	
<b>Garden Plot #5.</b> Aya wants to plant lettuce. Lettuce needs 1 square unit of space. She would like the garden to have 5 rows with 8 square units in each row. How much lettuce can Aya fit in her garden? What is the area of her garden in square units?	

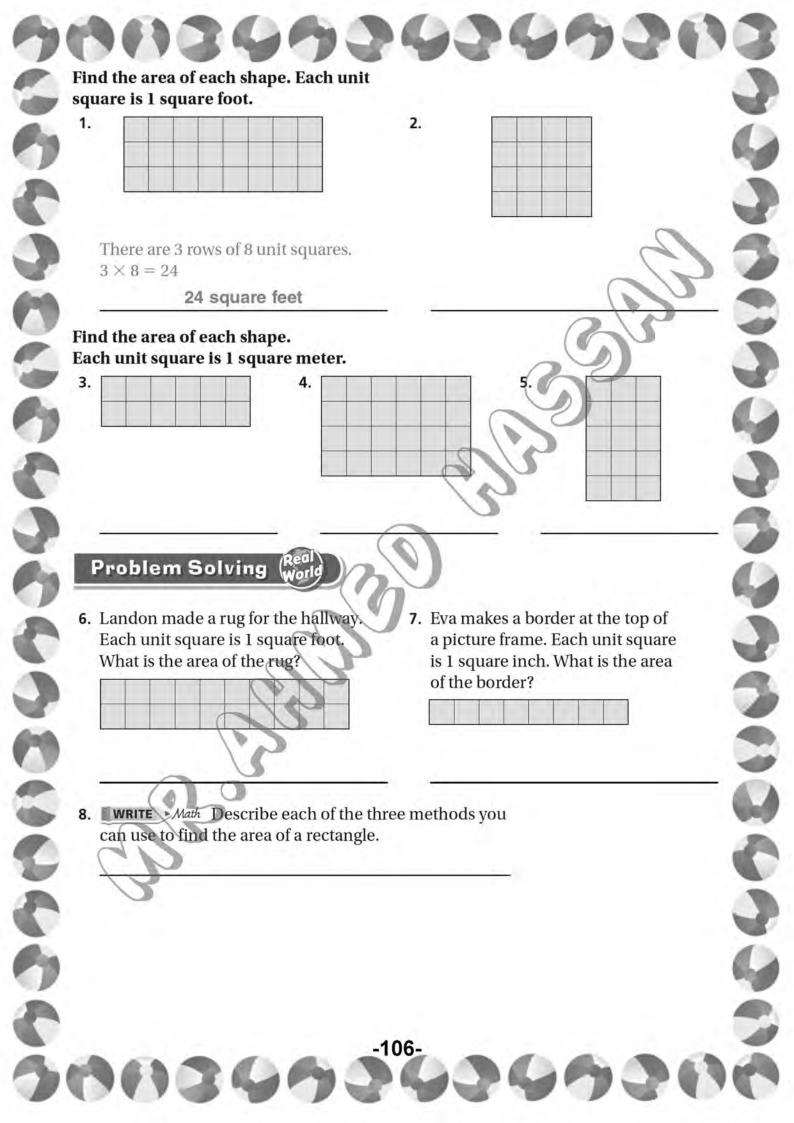


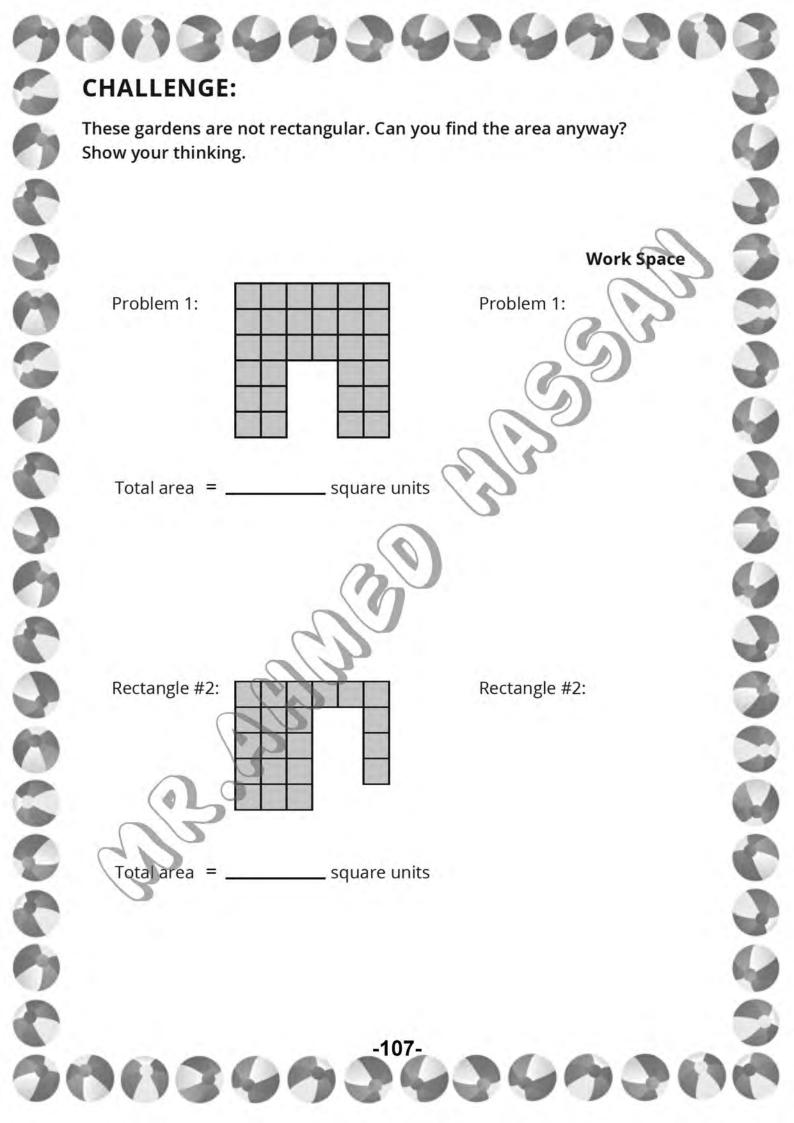


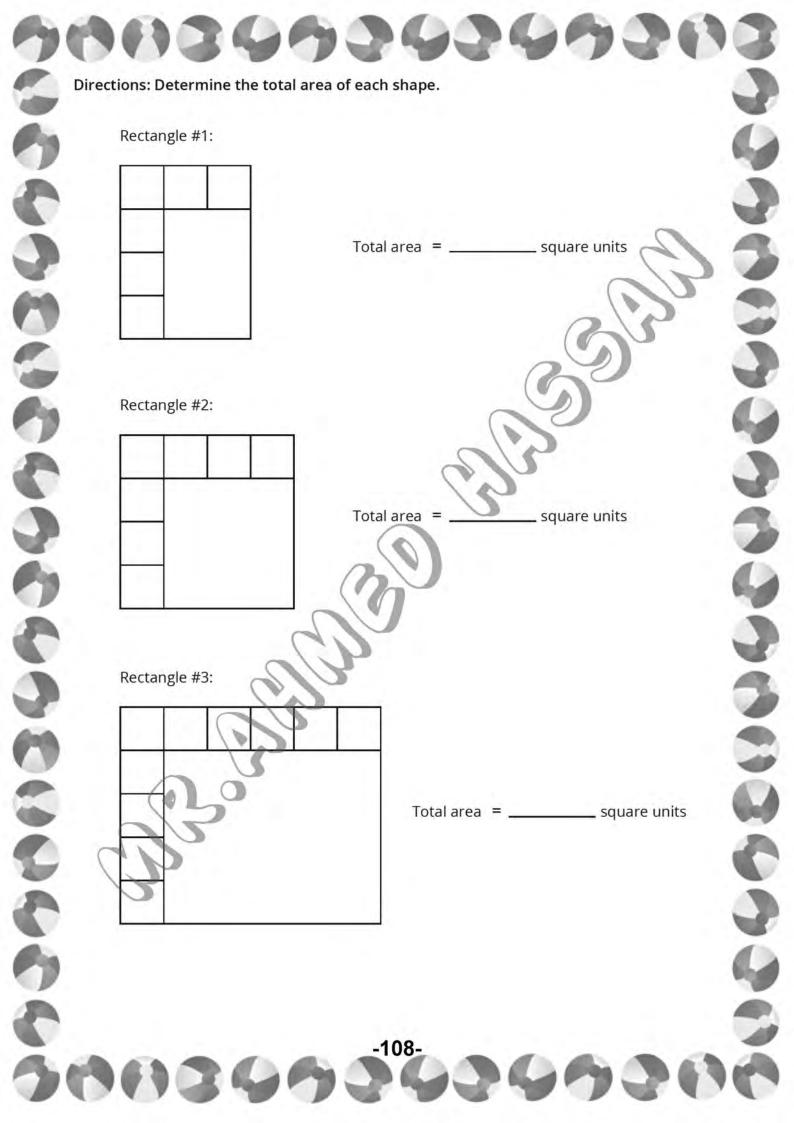
#### Use Area Models Essential Question Why can you multiply to find the area of a rectangle? Unlock the Problem Cristina has a garden that is shaped like the rectangle · Circle the shape of the garden. below. Each unit square represents 1 square meter. What is the area of her garden? One Way Count unit squares. Count the number of unit squares in all. There are \_\_\_\_ unit squares. So, the area is square meters. Other Ways Use repeated addition. unit squares Count the number of rows. Count the unit squares number of unit squares in each row. unit squares rows of = Write an addition equation. So, the area is \_\_\_\_\_ square meters. Use multiplication. unit squares in each row Count the number of rows. Count the number of unit squares in each row. rows rows of This rectangle is like an array. How do you find the total number of squares in an array? Write a multiplication equation. MATHEMATICAL PRACTICES 1 So, the area is \_\_\_\_\_ square meters. Analyze Can you use all 3 methods mentioned to find the area of all figure? -103-

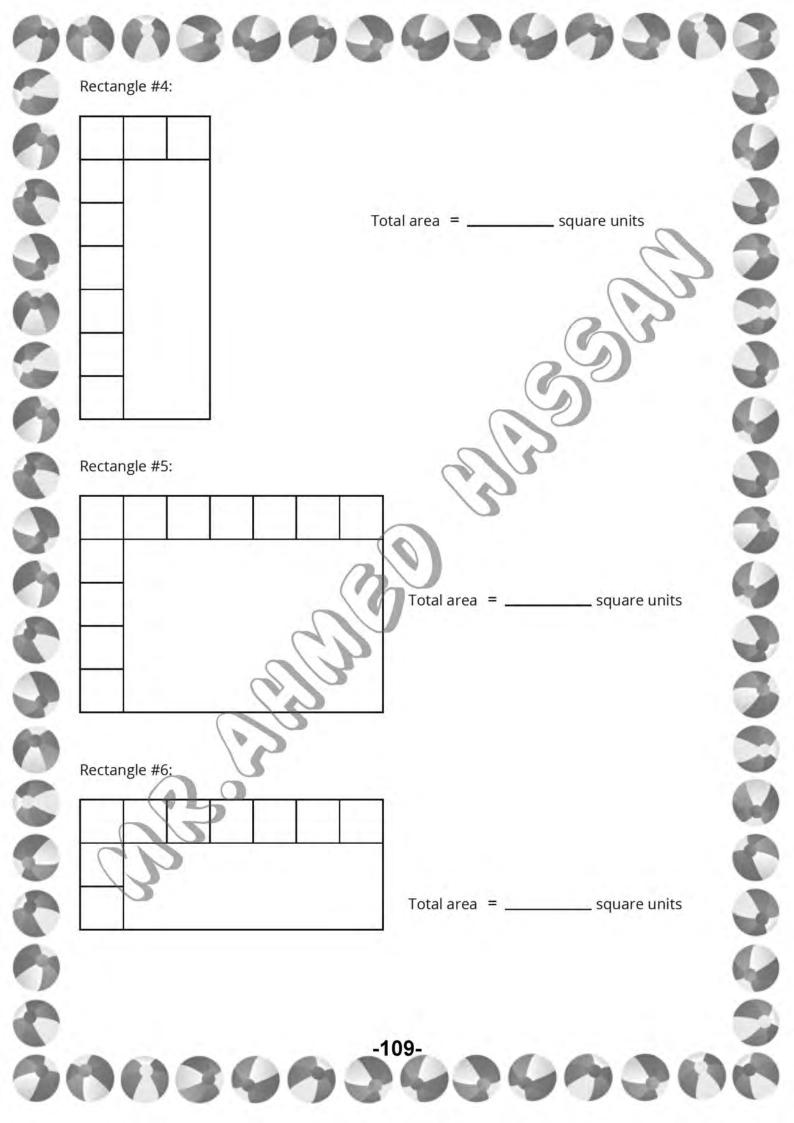






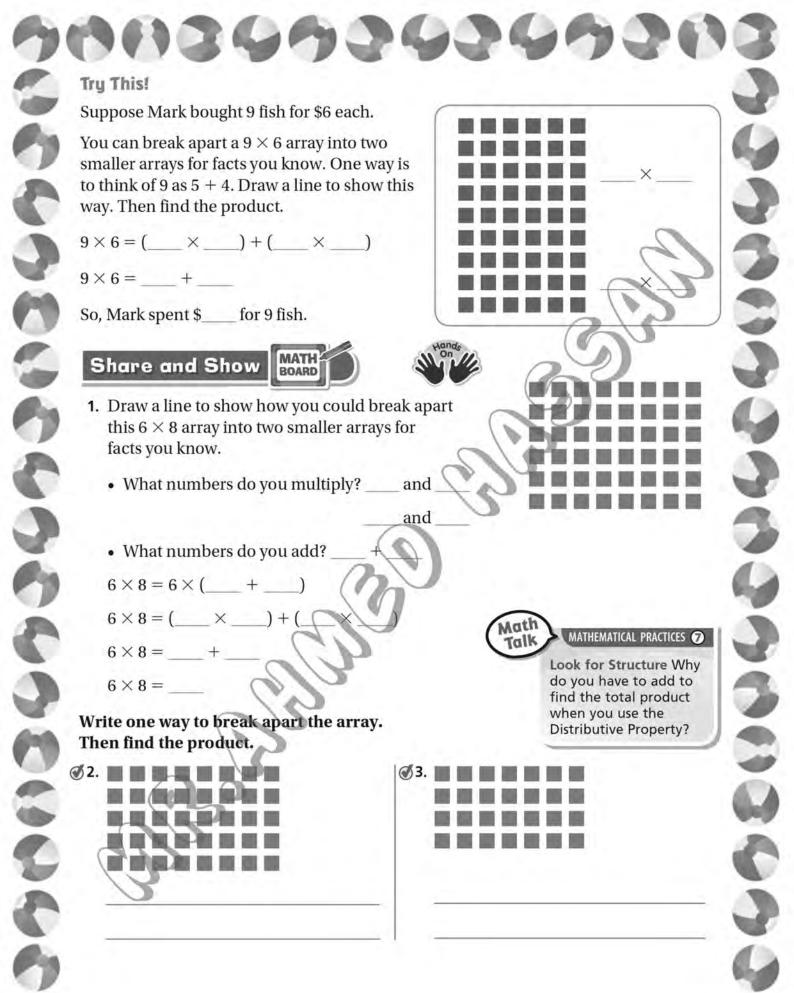




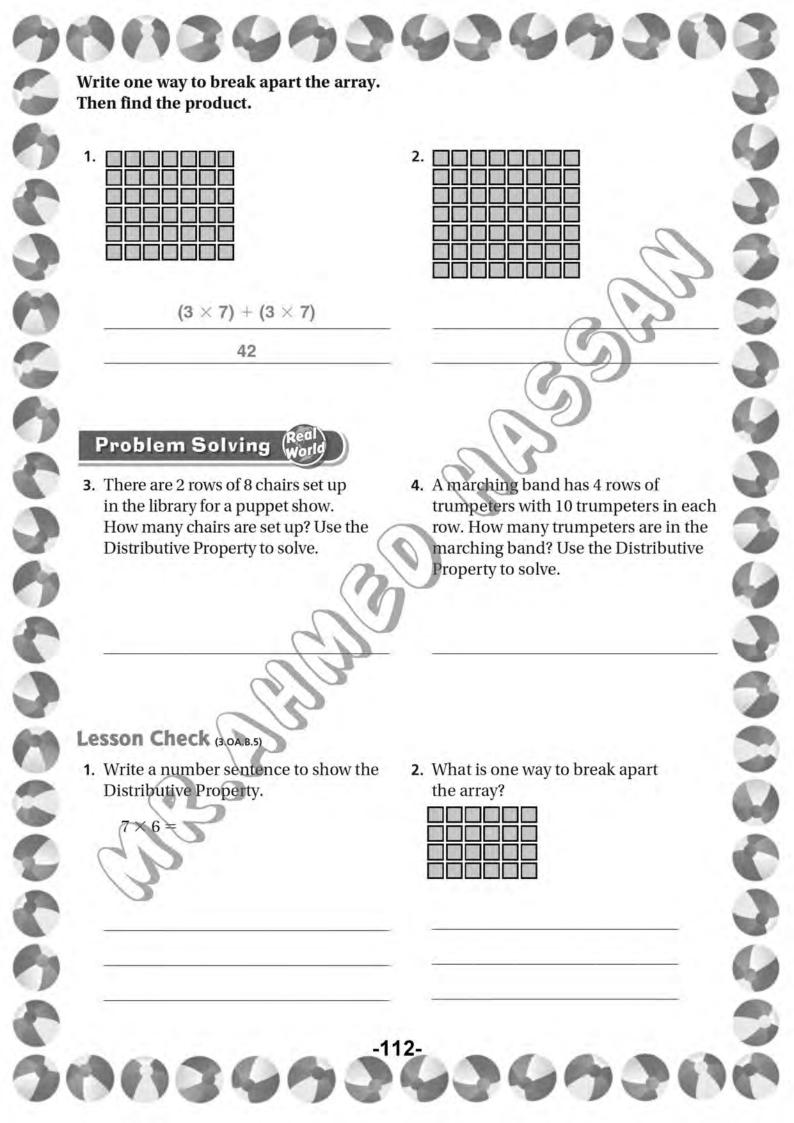


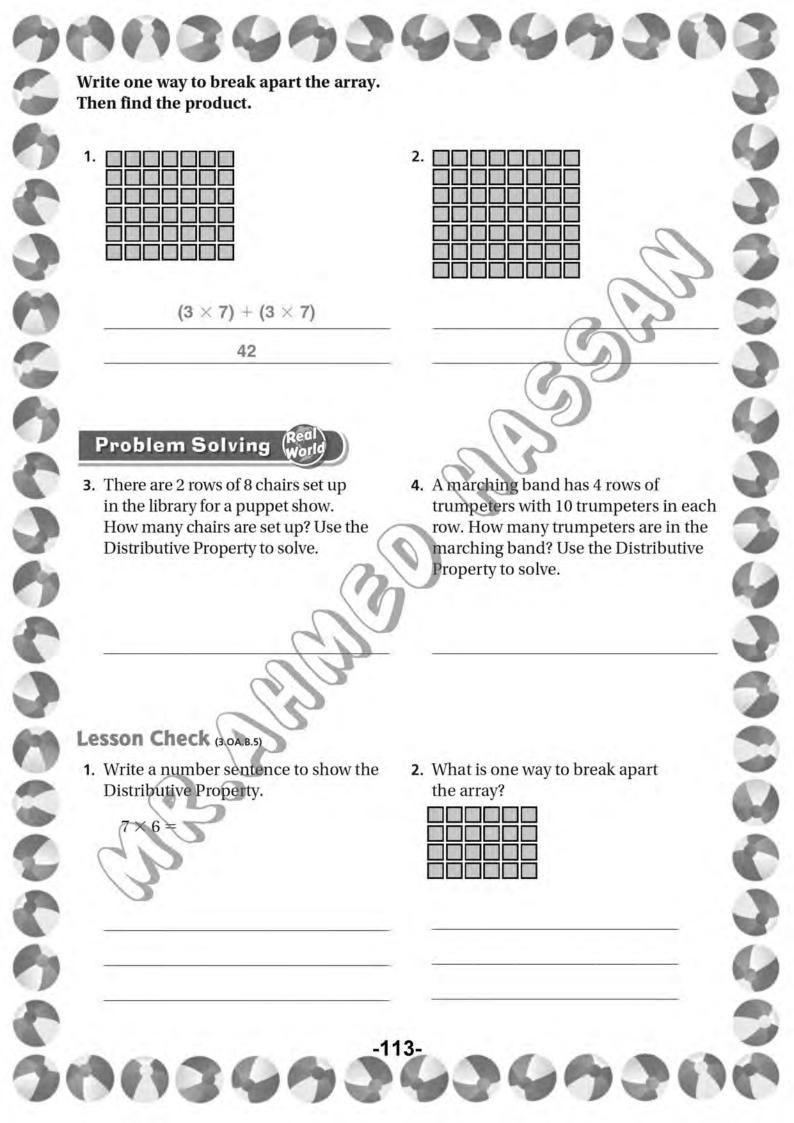
#### Lessons 38-40: Distributive property of multiplication Write the multiplication equations after splitting each array into 2 arrays: a) square $(4 \times 6) = ($ ( ..... × ..... ) (.....× .....) units square (.....) b) square $(5 \times 4) =$ ( ..... × ..... ) ( ..... × ..... ) units square + (.....)= C) $(3 \times 8) =$ square (.....×.....) + (.....×.....) units square + (.....)= units

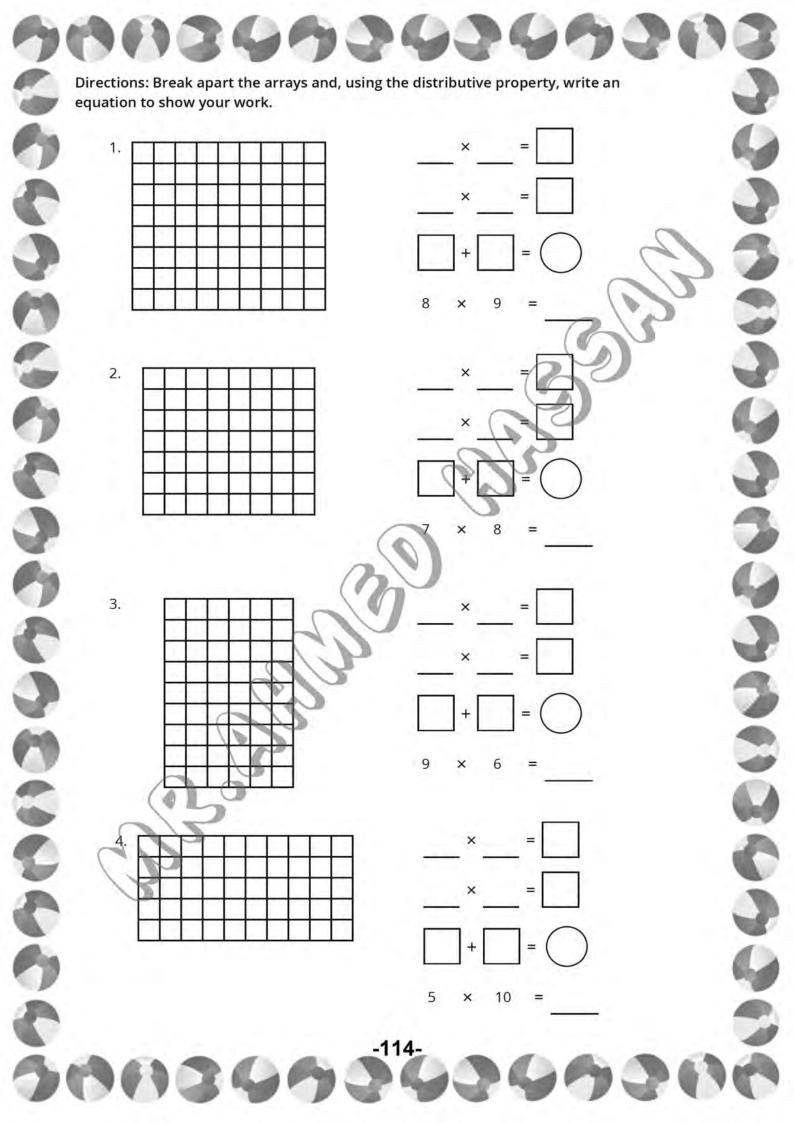
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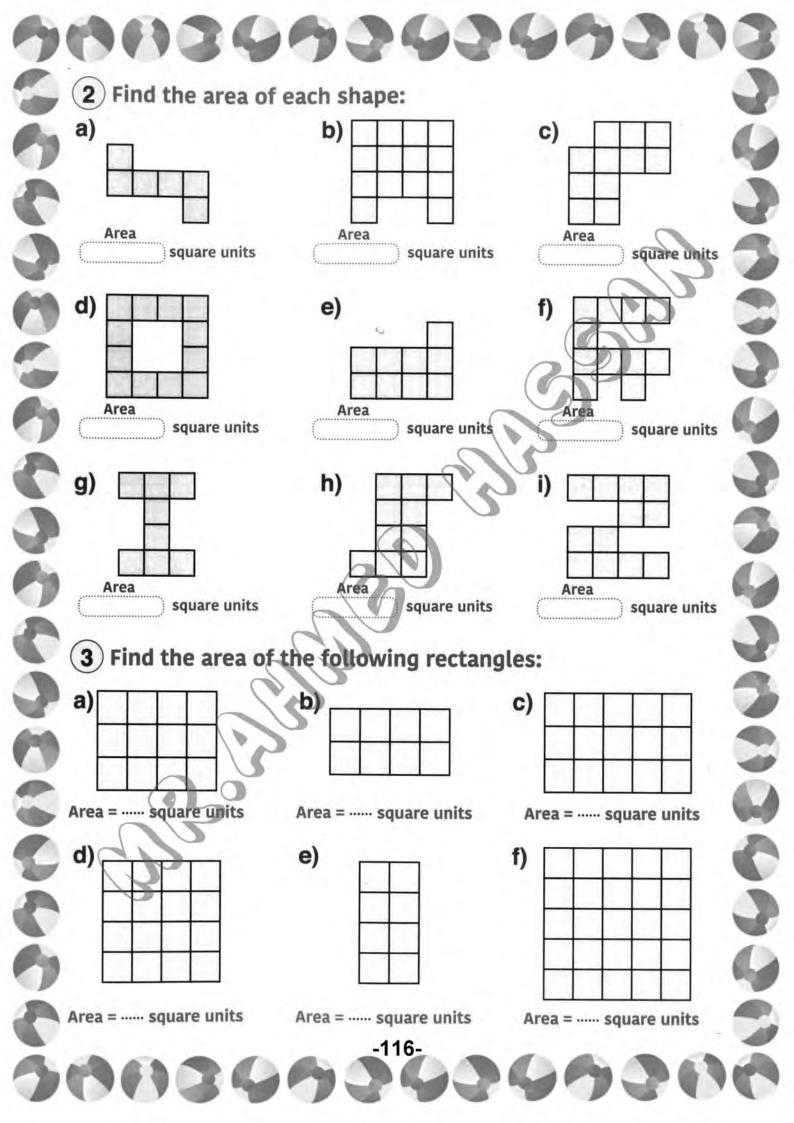


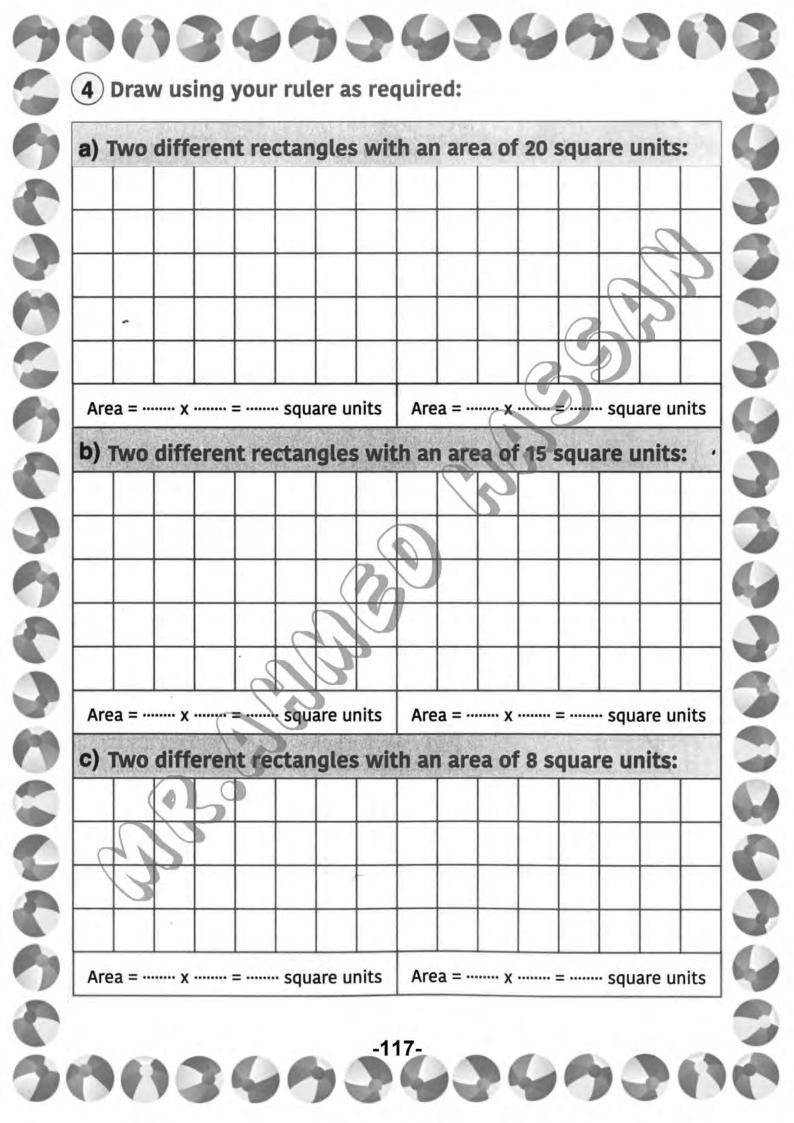
# Exercises on chapter4

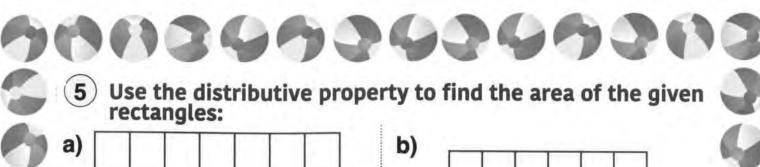
1 Fill in the following table:

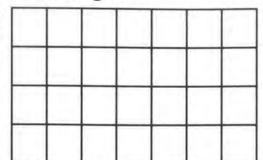
Shape	Name	Sides	Vertices	quadrilaterals
	Triangle	3	3	No
a)				
b)			23	
c)				
d)				
e) 3				

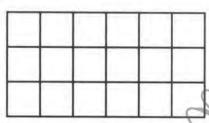
-115-



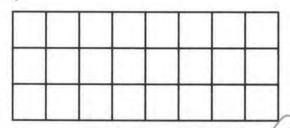




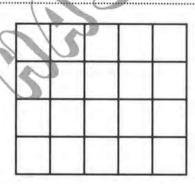








d)



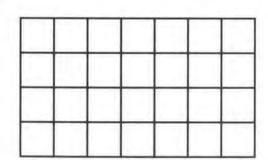
• ( ..... × ..... ) + ( ..... × ..... )

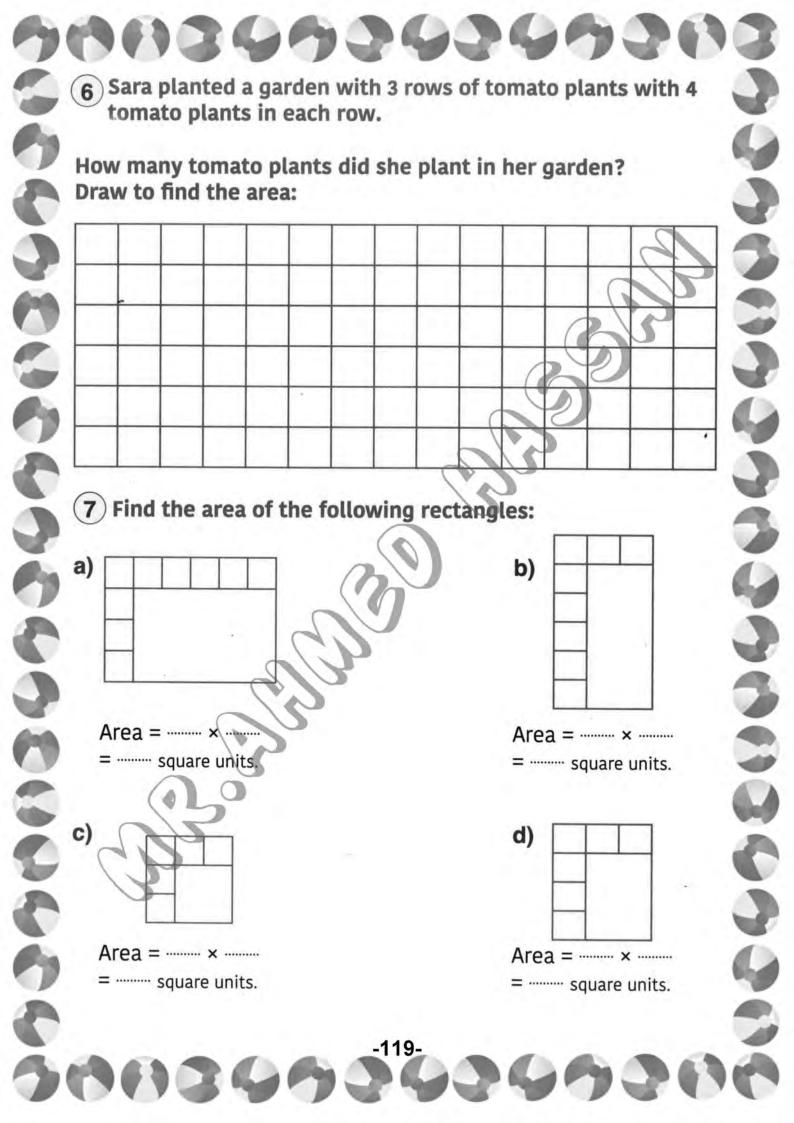
e)



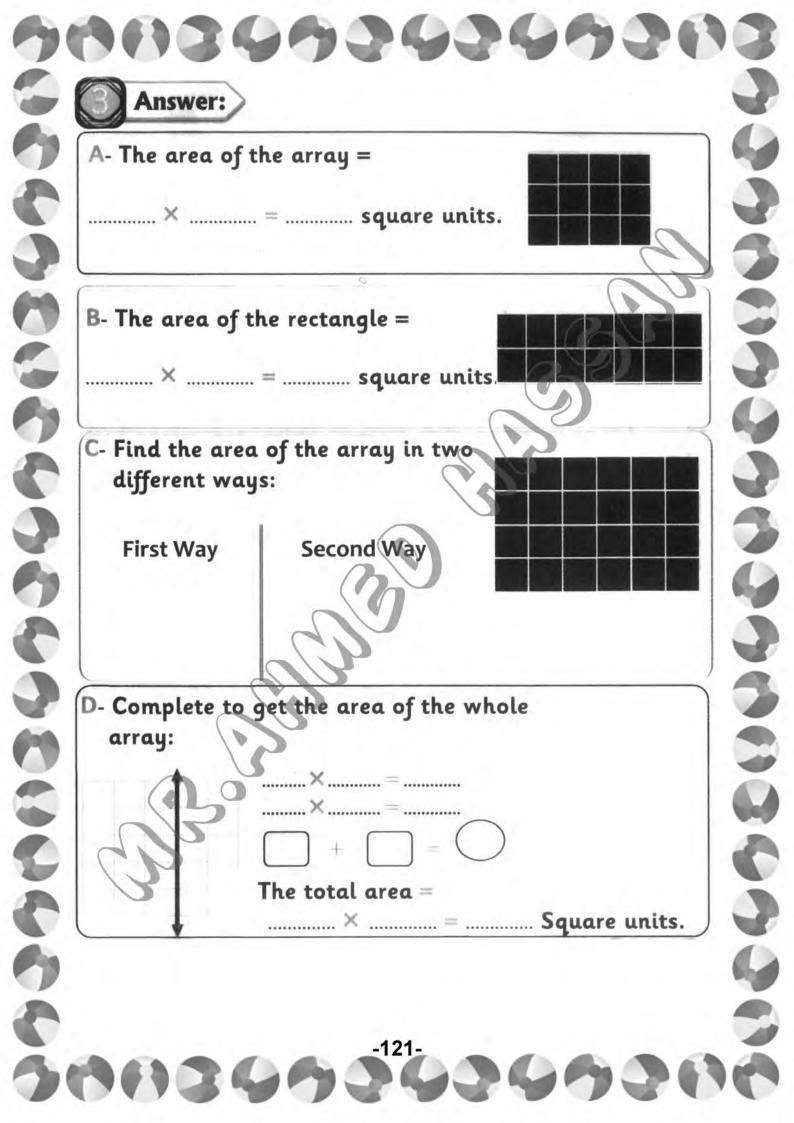
f)

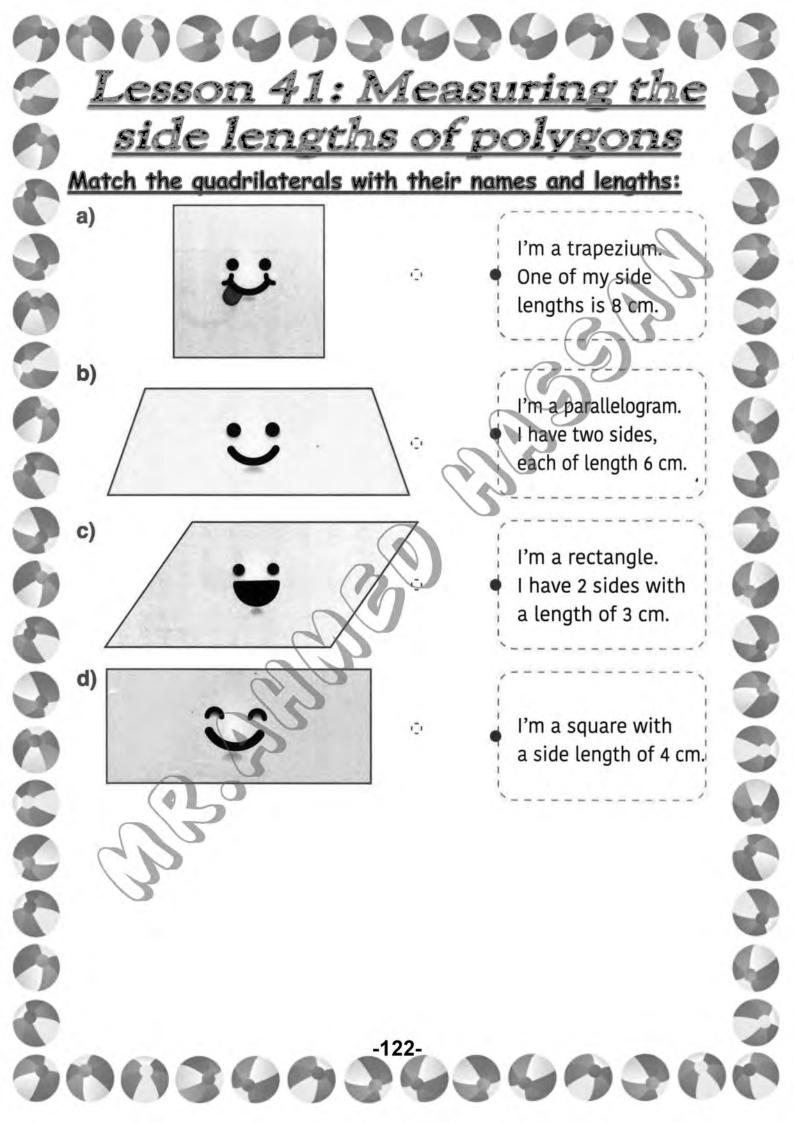
-118-





#### Additional Exercises Complete: 1) The area of an array with the two dimensions 6 and 7 is ...... Square units. The 2D shape with no vertices or sides is ..... The number of square units that this shape The shape is not a ..... because it doesn't consist of line segments. 5) The area of the garden is ...... square units. 3 A parallelogram is...... dimensional shape. It has ..... pairs of parallel sides. The number of ▲ in the figure ▲ Choose the correct answer: 1. A (cylinder - cube - triangle) is a 2D shape. 2 All of these shapes are polygons except ( 3. A 2D shape with 6 vertices is (pentagon - hexagon -30 quadrilateral 🔣 4. The two dimensions of an array with an area equal to 18 are (3,5 - 3,9 - 3,6). 5. The area of a rectangle = (15 - 9 - 10)square units. -120-

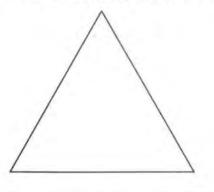


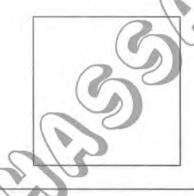


# Lessons 42-43: The perimeter of polygons

#### Color as required each time:

a) Color the polygon with the greater perimeter in yellow:





b) Color the polygon with the smaller perimeter in red:



c) Color the polygons with equal perimeters in purple:



-123-

## Choose the correct answer:

- 2) The suitable tool to measure the perimeter of is (ruler string measuring tape)
- 4) To measure the lengths of the fence surrounding a garden, we use \_\_\_\_\_\_. (ruler string = measuring tape)
- 5) All these shapes are polygons except
- 6) To measure the perimeter of \_\_\_\_\_,we use \_\_\_\_\_.

  (ruler string measuring tape)
- 7) The perimeter of the figure = units.  ${}^{2} \frac{1}{2} \frac{1}{2}$ (8 -10 12)

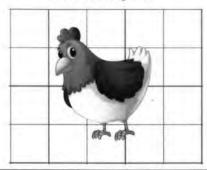
8) The length of the third side = (6 - 9 - 10) cm. when the perimeter = 24 cm

### Lesson 44-46: Area and perimeter

-125-

#### Find the perimeter and area of each pen in a big farm:

a) Chicken pen



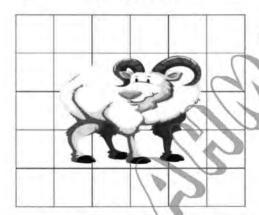
Perimeter = ..... meters.
Area = ..... square meters.

b) Duck pen



Perimeter = ..... meters.
Area = ..... square meters.

c) Sheep pen

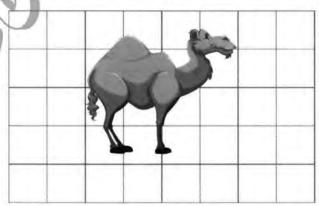


Perimeter = ..... meters.

Area = ..... square meters.

00000

d) Camel pen



Perimeter = ..... meters.

Area = ..... square meters.

#### Show 2 ways to find the area of the following rectangles after measuring the length: Example 5 m Way 1: Area = $4 \times 5 = 20$ square meters Ε Way 2: Area = 5 + 5 + 5 + 5 = 20 square meters a) Way 1: ..... cm Area = ..... Way 2: Area = ..... ..... m b) Way 1: Ε Area = ..... Way 2: Area = .....

-126-

#### 103939393930 Lessons 47-49: Rectangle

#### Draw using your ruler as required each time:

a) Draw two different rectangles with an area of 12 square units:

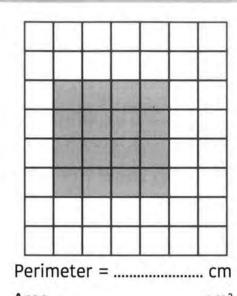
First rectangle	Second rectangle
	S.
2	
Perimeter = cm	Perimeter = cm
Area = cm <sup>2</sup>	Area = cm <sup>2</sup>

b) Draw two different rectangles with an area of 16 square units:

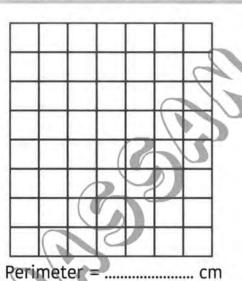
First rectangle	Second rectangle
Elp.	
Perimeter = cm	Perimeter = cm
Area = cm²	Area = cm²



#### a) Draw another rectangle with the same area but different perimeter:



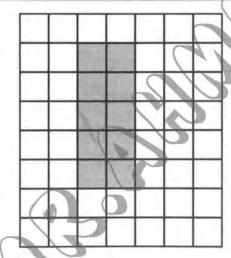
Area = ..... cm<sup>2</sup>



Perimeter = ..... cm

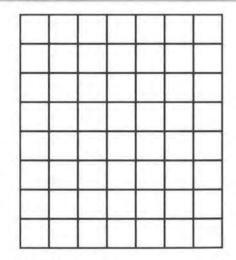
Area = ..... cm<sup>2</sup>

#### b) Draw another rectangle with the same perimeter but different area:



Perimeter = ..... cm

Area = ..... cm<sup>2</sup>



Perimeter = ..... cm

Area = ..... cm<sup>2</sup>

#### Read, then solve:

a) Sally is building a garden. She plans to build a rectangular garden measuring 6 meters by 3 meters. She wants to put a net over



top of the garden to keep the birds out. She has 12 square meters of netting in her garage. How much more netting will Sally need to cover her whole garden?

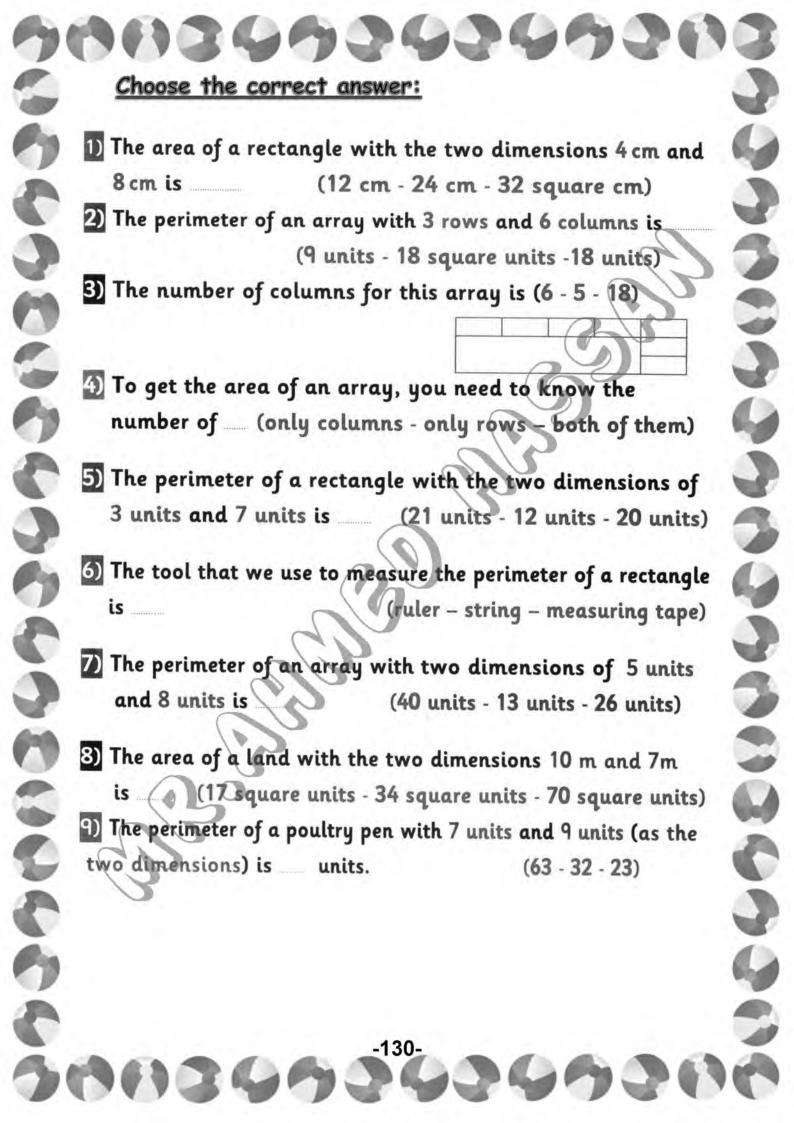
- The area of fence = ..... square meters.
- What Sally needs = ..... square meters.
- b) Nihal needs to help her parents and put a fence around their pool. They want the fence to be square and want each side to measure 6 meters. They already Have 10 meters of fencing. How many meters

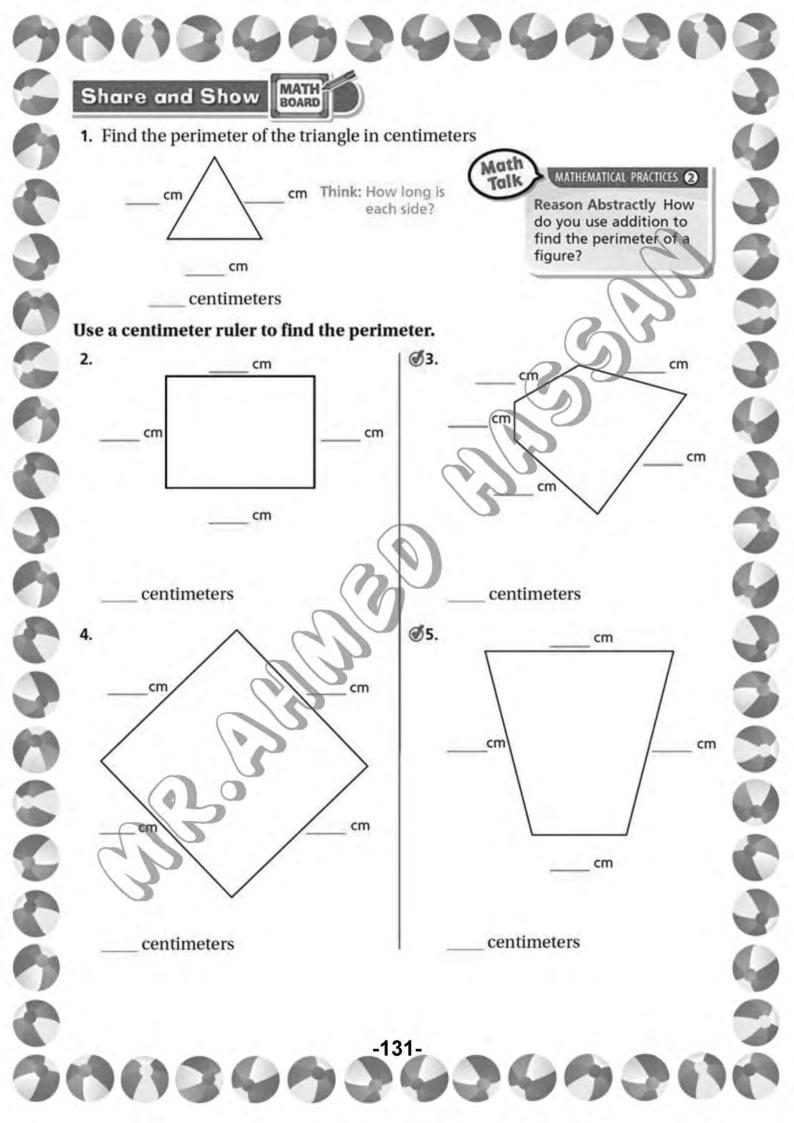
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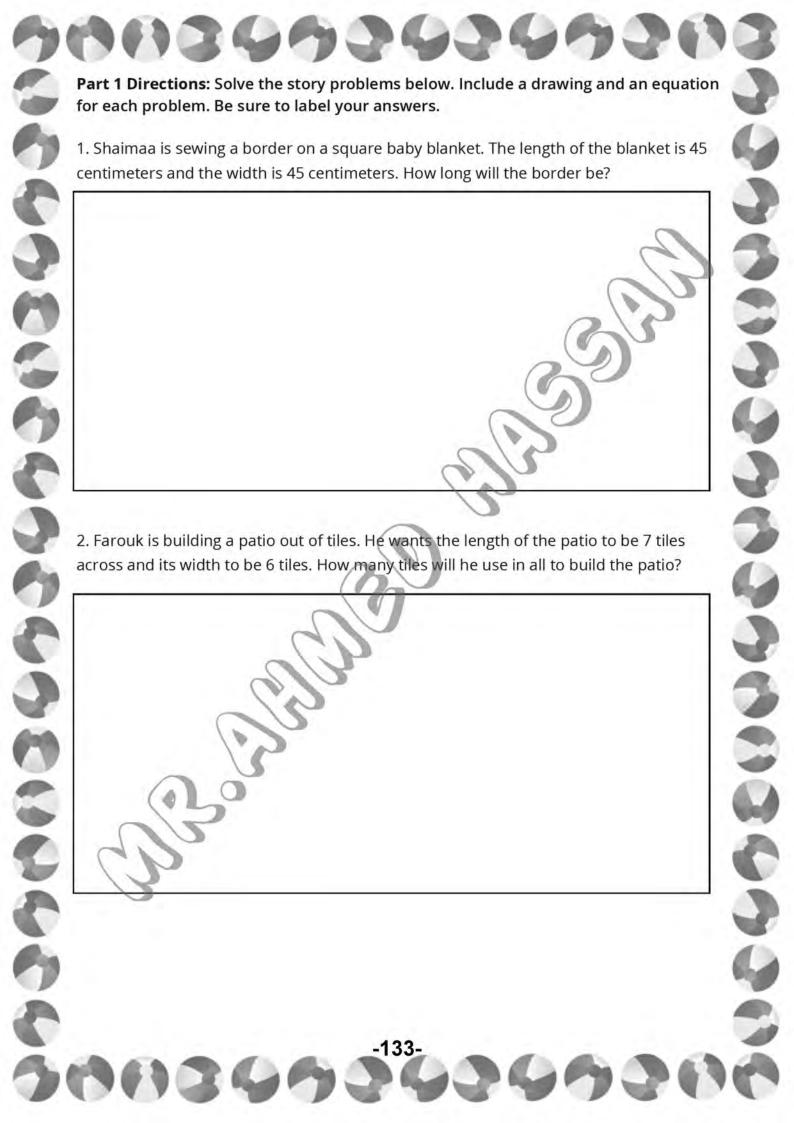
do his parents need to complete the fence?

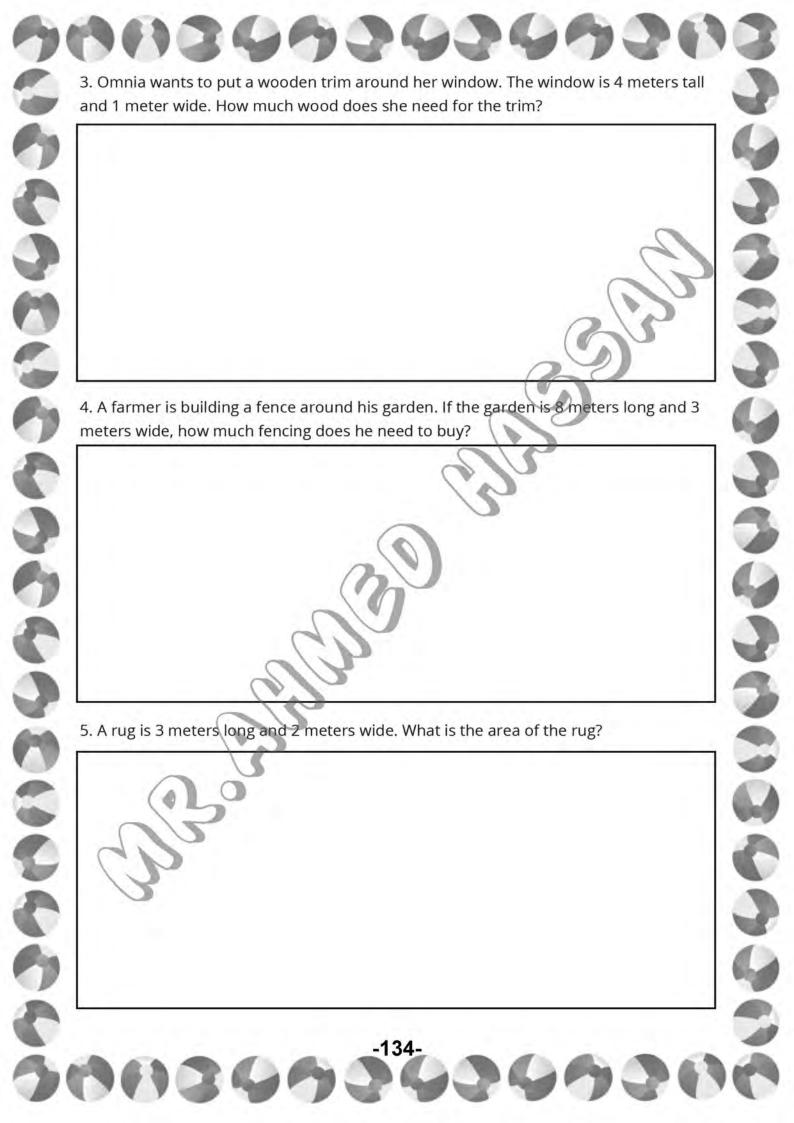
- The length of the fence = ..... meters.
- The needed length = ..... meters.

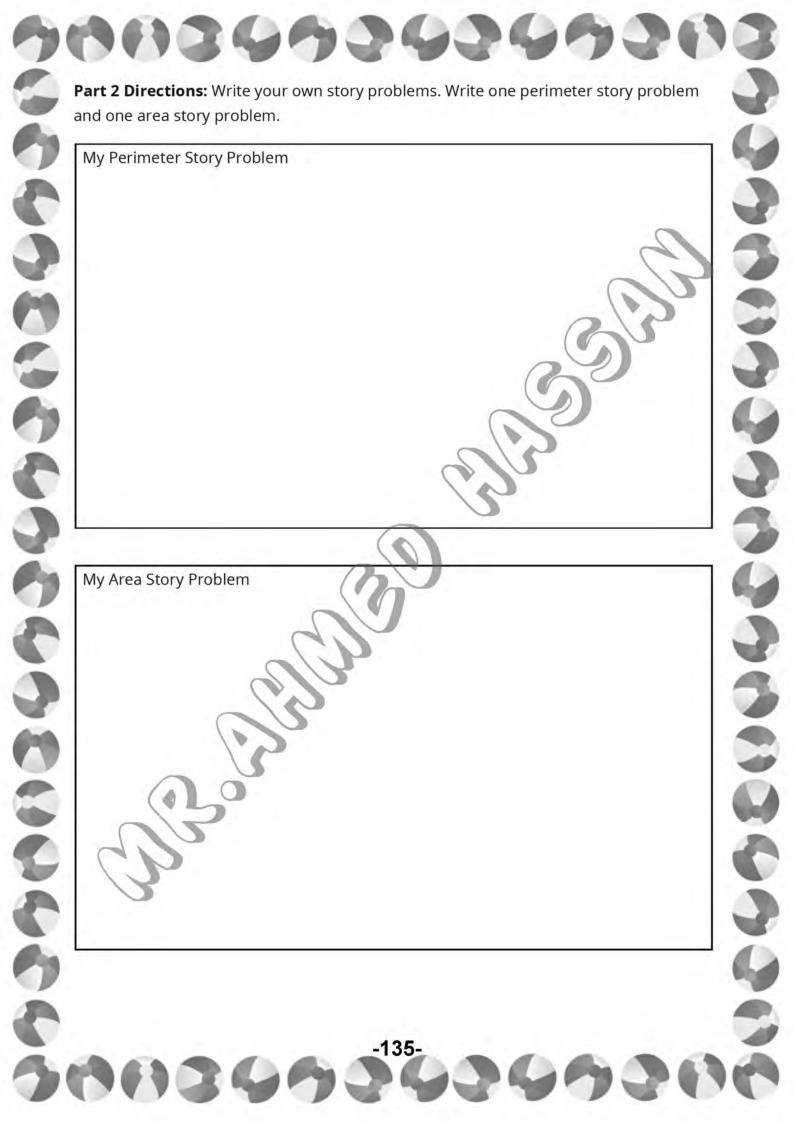




### Use a ruler to find the perimeter. 2. 4\_cm cm cm cm 3 cm 3\_cm cm 2\_cm centimeters 12 centimeters **Problem Solving** Draw a picture to solve 3-4. 4. Sophie draws a shape that has 3. Evan has a square sticker that 6 sides. Each side is 3 centimeters. measures 5 centimeters each side. What is the perimeter of the shape? What is the perimeter of the sticker? 5. WRITE Math Draw two different figures that each have a perimeter of 20 units. -132-







## Lesson 50: Multiplying by 10 x 4 = 360

#### Complete:

#### Write the multiplication equation for each of the following:

a)





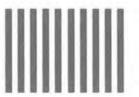
b)



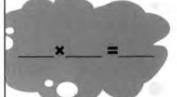


c)





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d)





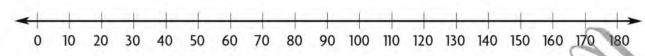
#### Share and Show



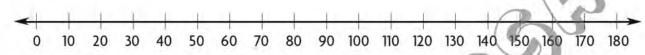
#### Use a number line to find the product.

1. 
$$3 \times 40 =$$

1.  $3 \times 40 =$  Think: There are 3 jumps of 40.



**3.** 
$$8 \times 20 =$$



#### Use place value to find the product.

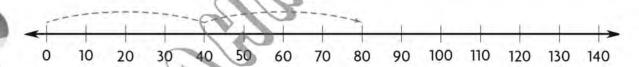
4. 
$$50 \times 2 = tens \times 2$$

#### MATHEMATICAL PRACTICES 3

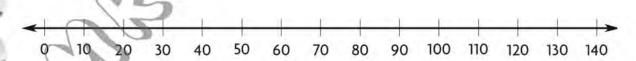
Use Repeated Reasoning Why will the product of a multiplication problem be the same when the factors are reversed?

#### Use a number line to find the product.

1. 
$$2 \times 40 = 80$$



**2.** 
$$4 \times 30 =$$



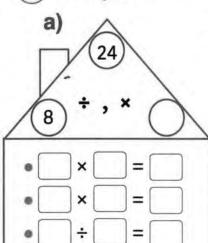
#### Use place value to find the product.

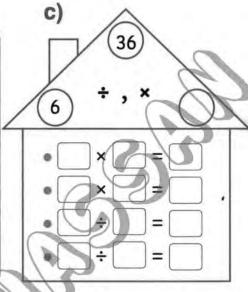
3. 
$$5 \times 70 = 5 \times$$
\_\_\_\_\_ tens = \_\_\_\_\_

4. 
$$60 \times 4 = \underline{\qquad} \text{tens} \times 4$$
  
=  $\underline{\qquad} \text{tens} = \underline{\qquad}$ 

### Exercises on chapter5

#### 1 Complete:

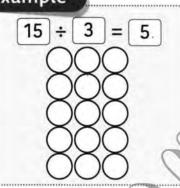




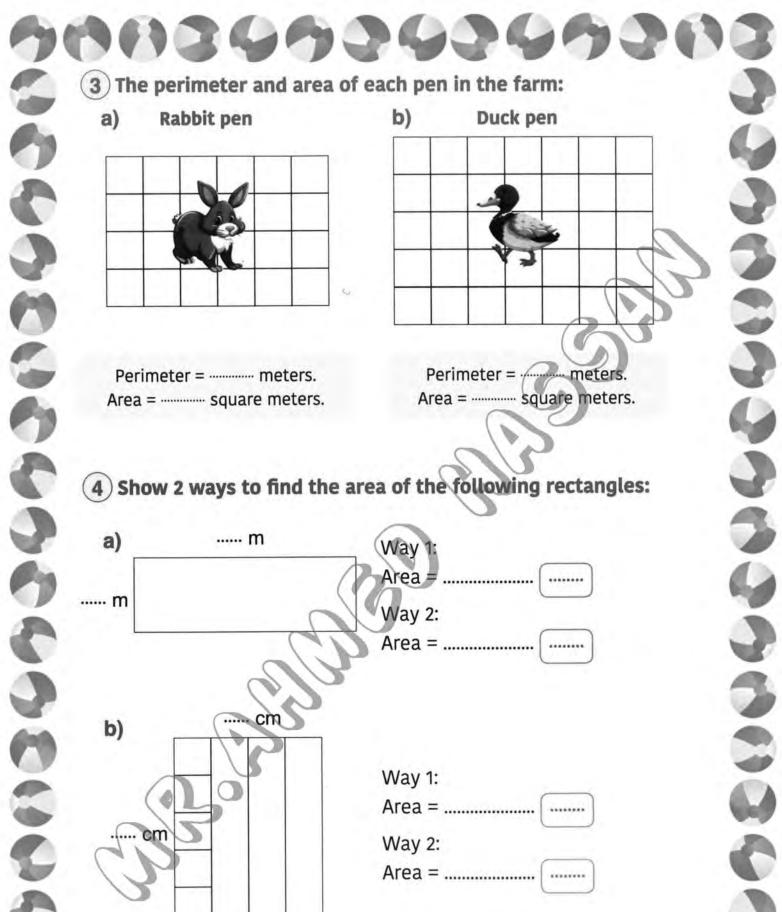
#### counters to form pictures to solve the division problems.

#### Example

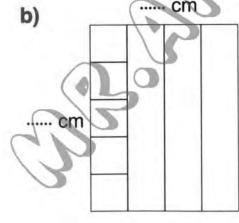
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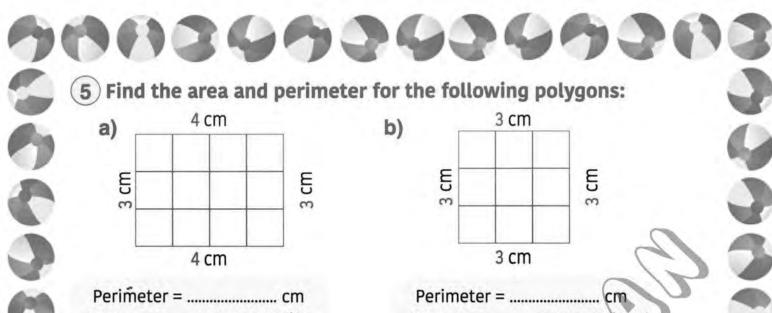


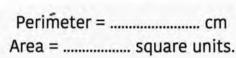
-138-

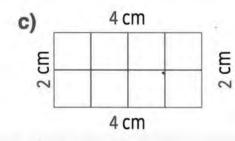


-139-

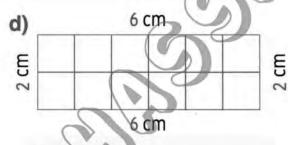








Perimeter =	cm
Area = square u	nits.

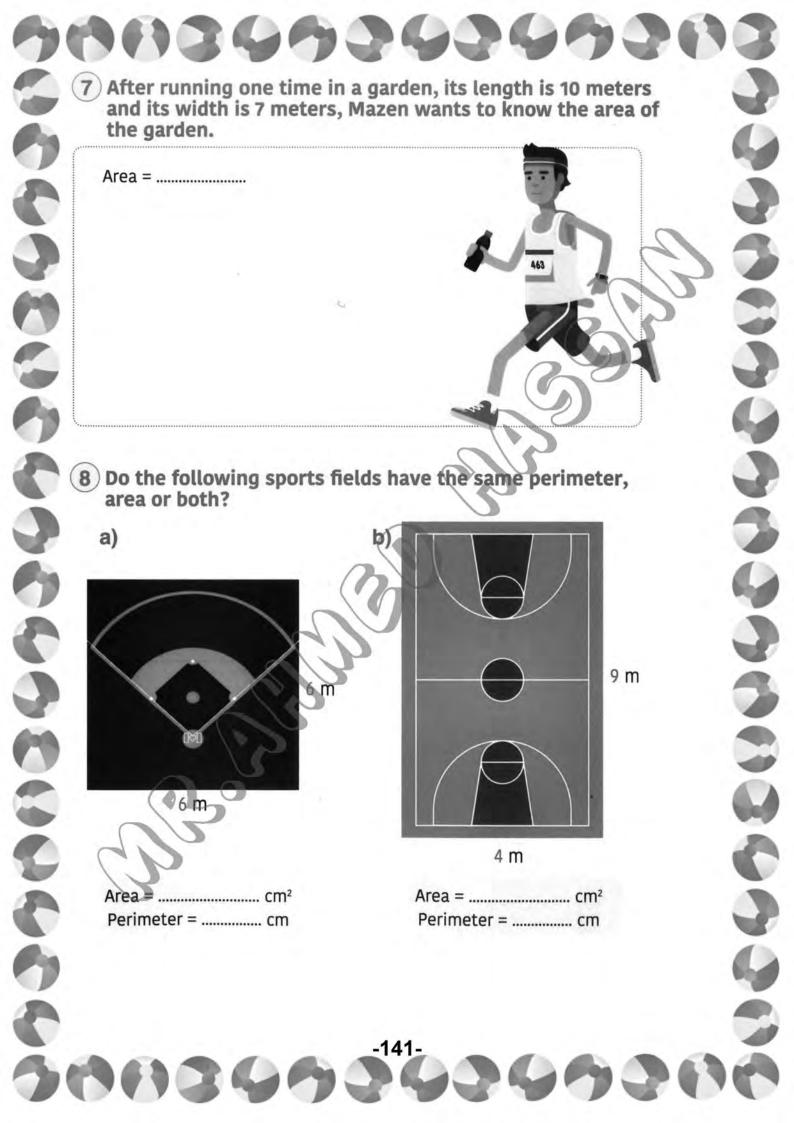


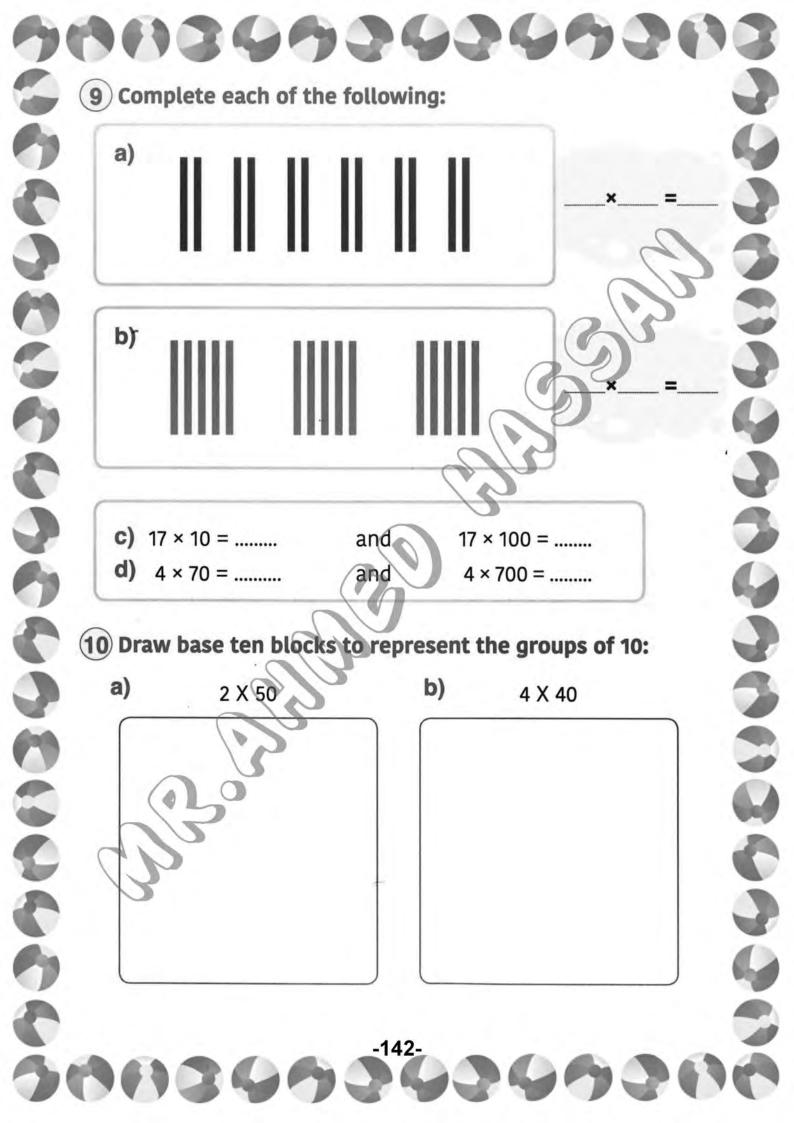
Perimeter =	)	cm
Area =	square u	nits.

#### 6) Use your ruler to draw 2 different rectangles with an area of 8 square cm:

Length =
Width =

-140-





#### Additional Exercises Complete: 1) The area of poultry farm with the two dimensions 10 m and 5 m, is ...... square meters. 2) The perimeter of the figure 5 cm 3 cm is 3 The length of a fence with the two dimensions 8 m and 5 m is ..... meters. The perimeter of the figure. 1 cm 5 Two arrays can be of equal area and different in ..... 5) 5 × 90 = ..... 7) 3 × 4 × 10 = ..... Choose the correct answer:

The area of a rectangle with the two dimensions 2 cm and 5 cm is (7 cm square - 10 cm square - 14 cm square)

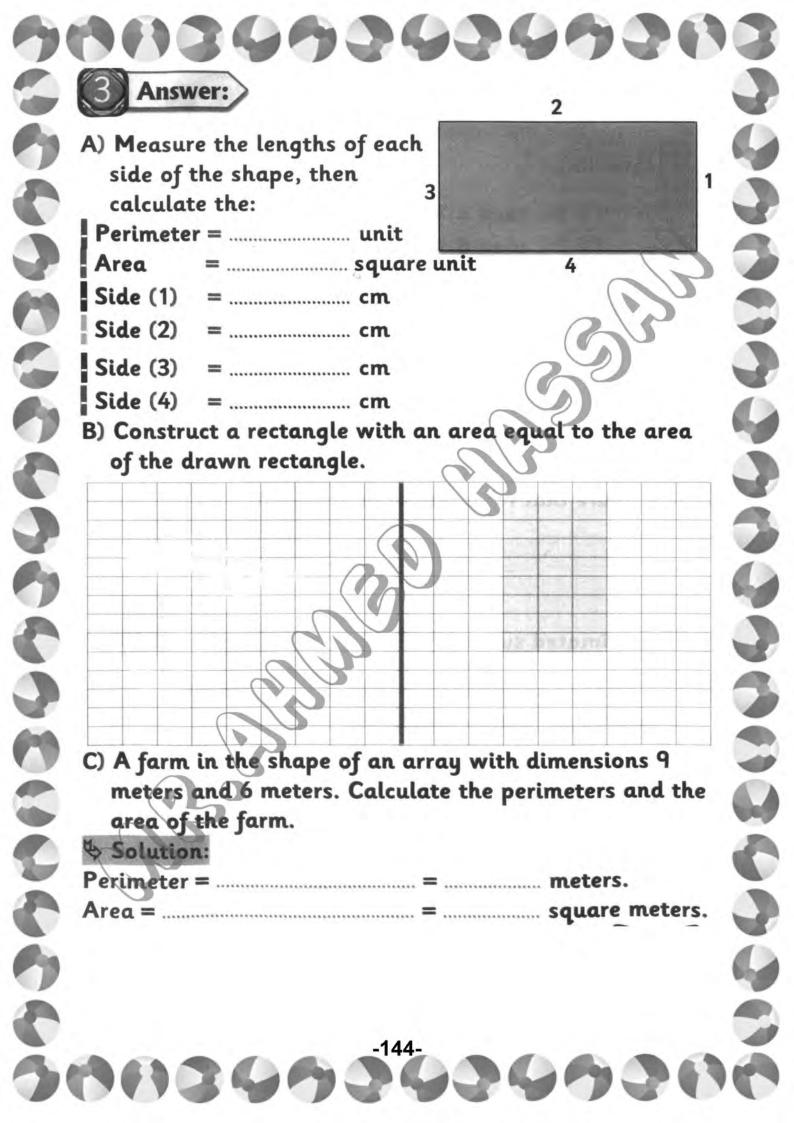
-143-

- 2 The tool that helps us measure the perimeter is a (protractor ruler graduated cylinder).
- 3. The perimeter of the figure (20 cm 19 cm 21 cm).



4 2 × 4 × 30

(90 - 240 - 280).



# Lesson 51: Patterns of multiplying by 10

Directions: Solve the problems below. Split the multiples of 10 into 10 and the other factor. For example, 40 has the factors 10 and 4.

Example:

 $8 \times 40$ 

 $(8 \times 4) \times 10 = 320$ 

3 × 90				4 × 80			<i>®</i> ,	
(	×	)×10 =		(	×	) × 10	2	
9 × 20				6 × 30	3	7		
(	×	)×10 =	0	M	×	)×10	=	
8 × 50			2	7 × 30				
(	×	)×10 =	U/m	(	_×	_)×10	=	
6 × 70		(1)	20	5 × 40				
(	×	)×10 =		(	×	_)×10	=	

**CHALLENGE:** Malek bought a box of cards. In the box there were 6 smaller boxes, and in each of those boxes there were 6 packs of 10 cards. To find the total number of cards he bought, Malek wrote this equation:  $6 \times 60 = 360$ . Is he correct? Explain how you know.

#### On Your Own

#### Find the product.

1. 
$$4 \times 50 = 200$$

**2.** 
$$60 \times 3 =$$

3. 
$$_{---} = 60 \times 5$$

#### Find the product.

7. 
$$70 \times 4$$

8. 
$$6 \times 90 =$$

**10.** 
$$8 \times 90 =$$

## Find the product. Use base-ten blocks or draw a quick picture on your MathBoard.

11. 
$$8 \times 50 =$$

12. 
$$\underline{\phantom{a}} = 3 \times 90$$

13. 
$$2 \times 80 =$$
\_\_\_\_

#### Find the product.

#### Practice: Copy and Solve Find the product.

**18.** 
$$6 \times 70$$

19. 
$$9 \times 90$$

**20.** 
$$70 \times 8$$

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**21.** 
$$90 \times 7$$

# Lesson 52: Multiplying by 9

#### Group 3: 120 Chart Strategy

Directions: Shade in all the multiples of 9. Next to the chart, record what patterns you notice.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Describe the patterns you observe.

**CHALLENGE:** Record all the multiplication equations below. See if you can find products beyond those you colored in the 120 Chart.

#### Group 4: Tens Facts Strategy Directions: You can use what you know about multiplying by 10 to quickly multiply by 9. Look at the example below. Solve and discuss each problem with your group. 9 × 6 First draw a model of 10 × 6 and then cross out one group of 6. Now there are 9 groups of 6. 6 6 6 6 6 6 6 6 6 $10 \times 6 = 60$ 60-6 = so 9 × 6 9 × 5 so 9 × 5 $10 \times 5 =$ 10 × 7 $so 9 \times 7 =$ 9 × 3 $10 \times 3 =$ So 9 × 3 = 9 × 2

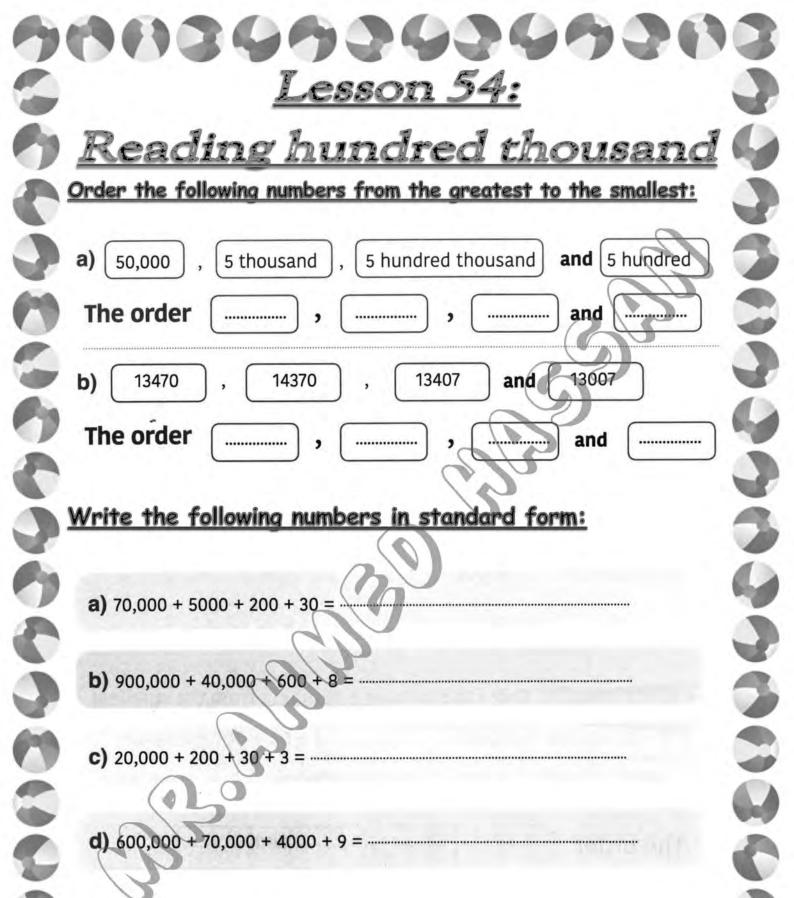
53: Addition and multiplication strategies Match between the problems and their strategies: 1) a)  $2 \times 6$ Zero is a hero 6 × 2 b) 2) Doubling strategy -8+3 7+7)+2=163) c) Commutative strategy 8 × 0 d) 4) Making ten 10 + 1 = 115) e) Commutative 5 + 4strategy 4 + 512 -149-



#### 7 × 2 =

3000Q

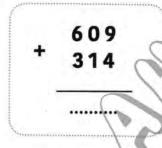
0



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## 55: Addition using <u>different strategies</u> Match the addition problem to its answer and its strategy, then solve it: a) 318 254



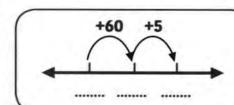




Hundreds	Tens	Ones
		2
		) 666666
	)	

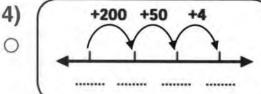
#### 3)

0



#### 4)

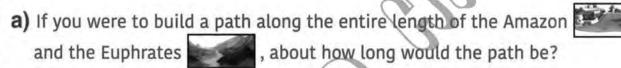
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# 56: Data table

#### The following table shows the lengths of some of the world's longest rivers:

RIVER	APPROXIMATED LENGTH IN KILOMET	TERS*
Nile	About 6,650 km	a
Amazon	About 6,400 km	12
Mississippi	About 3,775 km	9
Euphrates	About 2,800 km	)





b) If you were to paddle the entire length of the Mississippi and the Nile together, Amazon and Mississippi together which length would be the longest?

For Mississippi



and the the Nile together



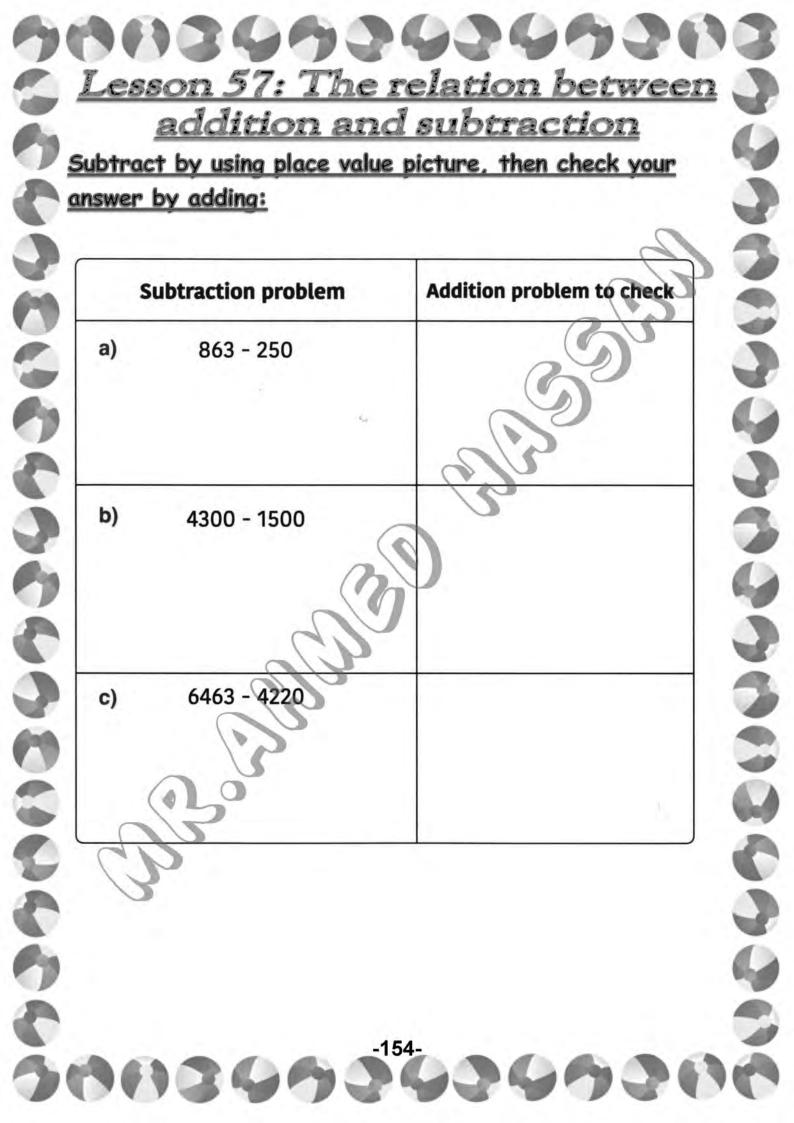


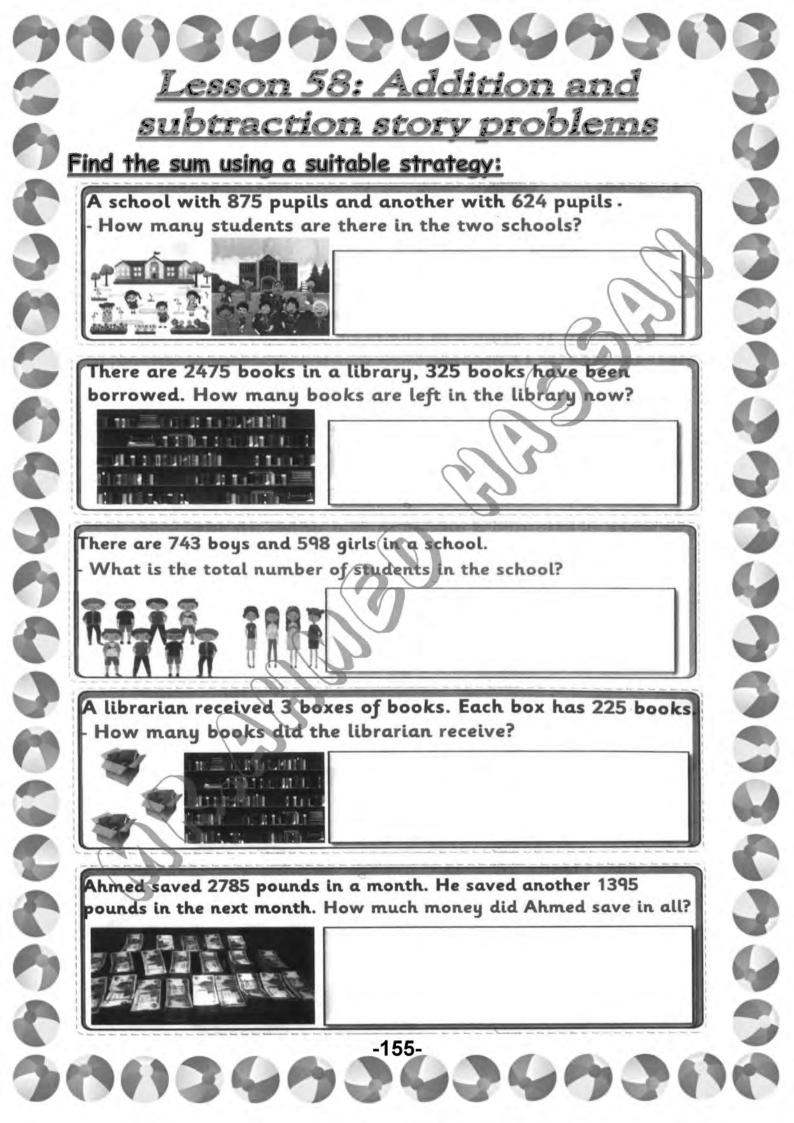
For Amazon and the Mississippi together



c) So the length of the ..... and the ..... together is longer than the ..... and the .....

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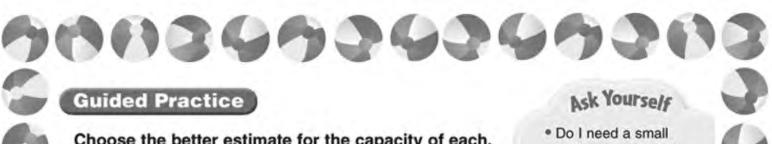




# Lesson 60: The graduated cylinder to measure liquids

Complete the table by using the suitable volume:

Container	Picture	Volume measurement
a) A cup of coffee	B	
A large bottle of shampoo	I	
c) A bottle of medicine		
d) A box of juice		
e) A tank of water		



#### Choose the better estimate for the capacity of each.

1.





3.



- unit or a large unit?
- Which is the smaller unit? the larger unit?

3 L or 30 mL

1 L or 5 L

14 L or 14 mL

Choose the unit you would use to measure the capacity of each. Write mL or L.

- 4. bathtub
- 5. a spoon
- 6. a container of milk

Explain Your Thinking Would you need a larger container to hold 500 mL or to hold 1 L? Explain,

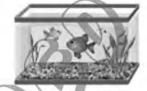
#### **Practice and Problem Solving**

Choose the better estimate for the capacity of each.

7.



100 L or 100 mL



20 L or 2 L

200 mL or 200 L

Choose the unit you would use to measure the capacity of each. Write mL or L.

- 10. a pail
- 11. a soup can
- a drinking glass

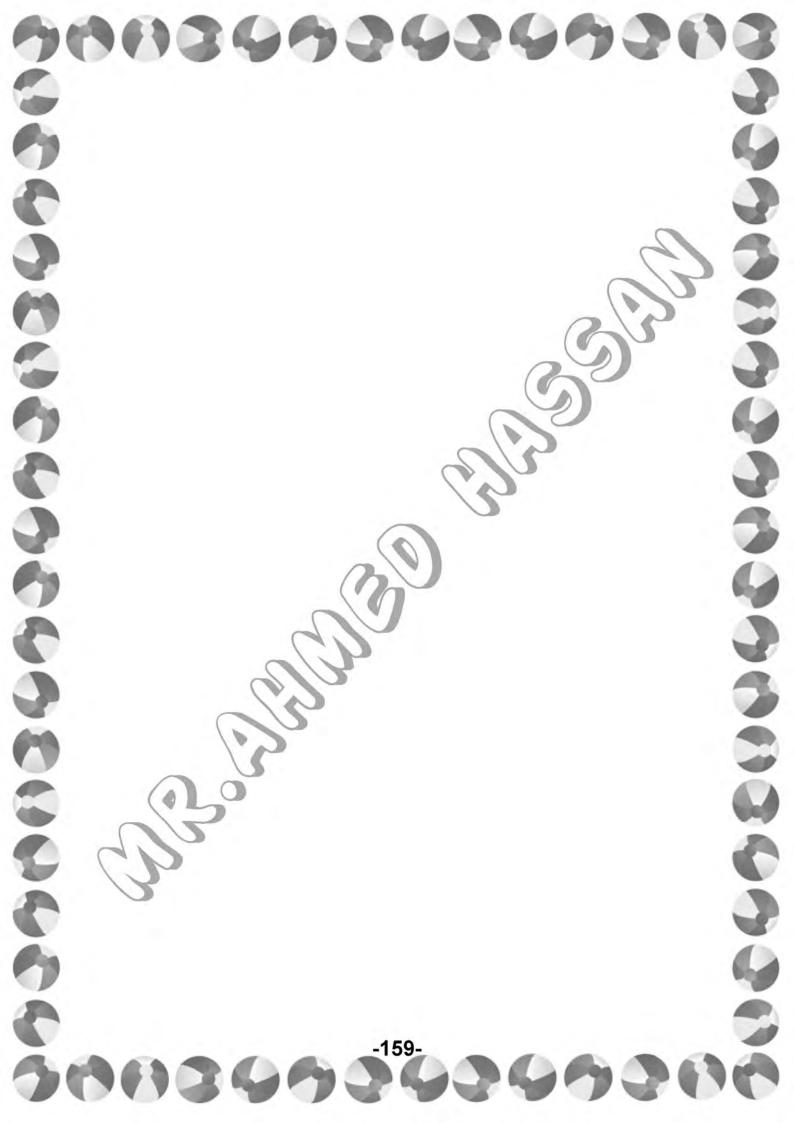
- 13. a pond
- 14. a small vase
- a watering can

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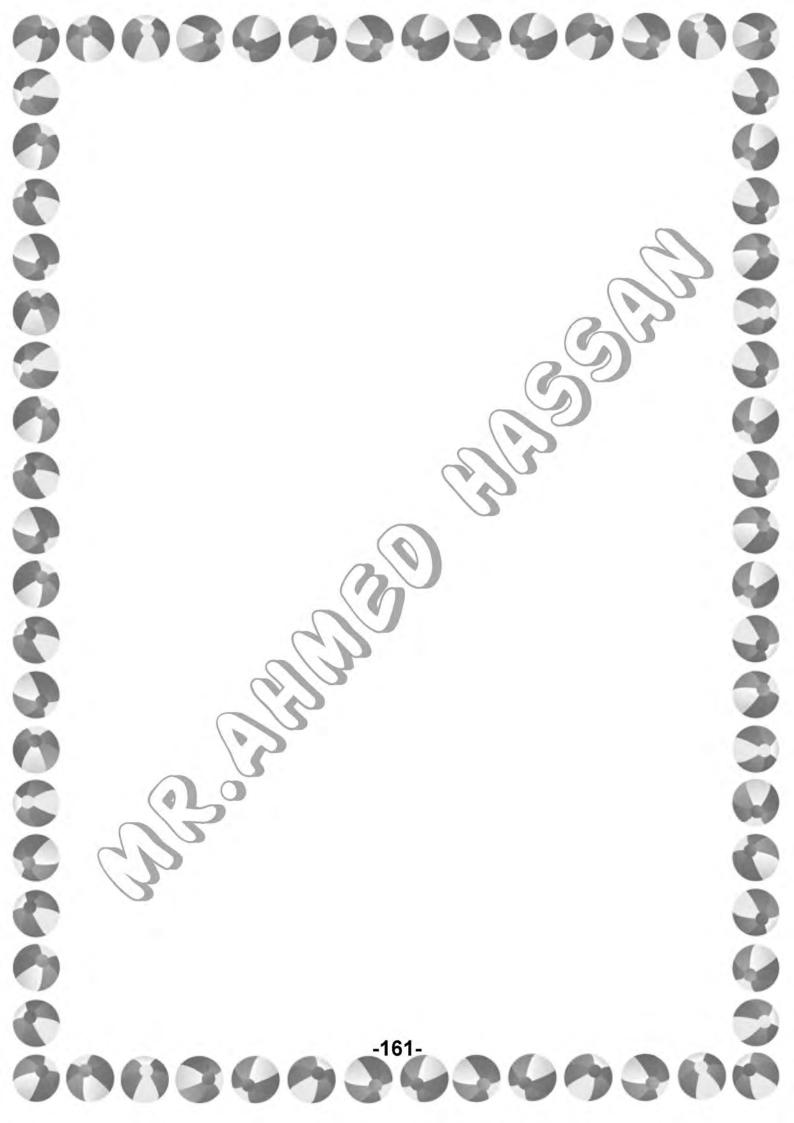
#### Solve.

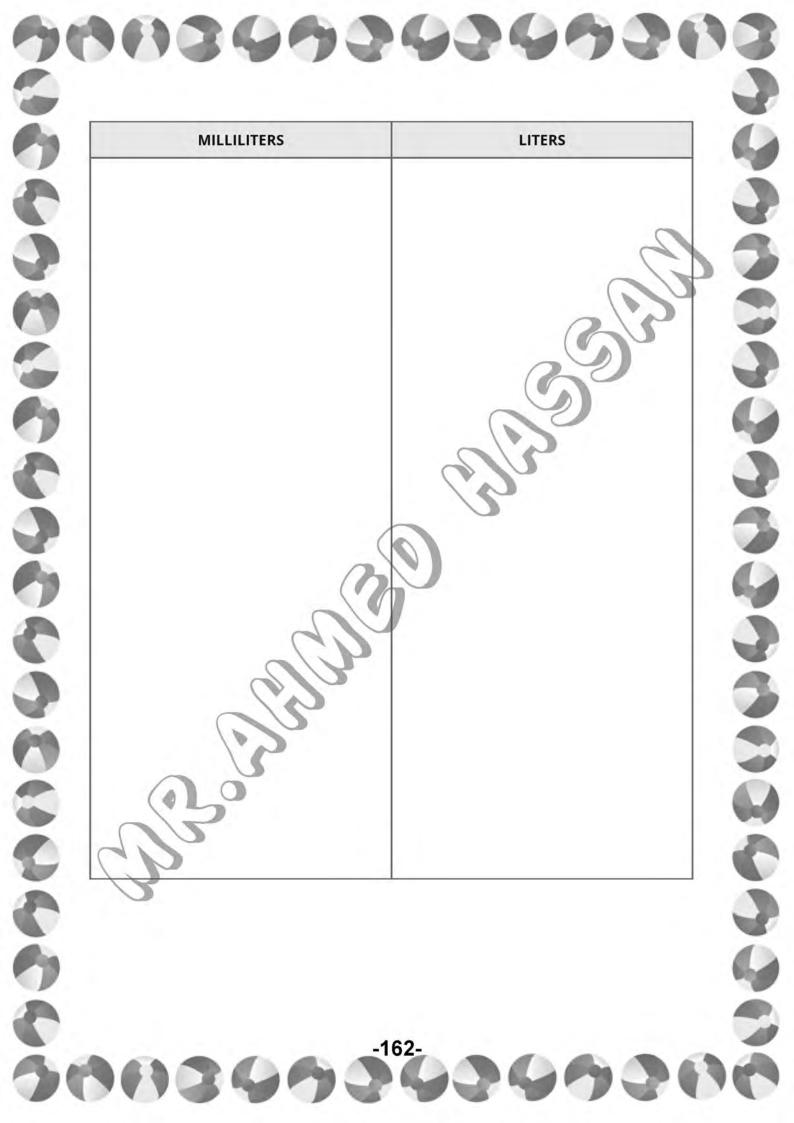
- Nick poured 2,300 mL of water into a bowl. Then Rea poured 3 L of water into the same bowl. How much water in milliliters is in the bowl now?
- 17. Reasoning Celia's bottle holds more water than Tim's bottle. One bottle has a red label and holds 2 liters. The other has a blue label and holds 1,500 mL. What color is the label on Tim's bottle?





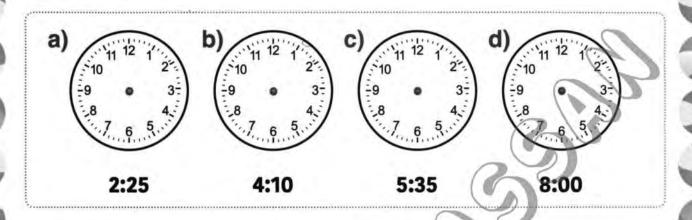




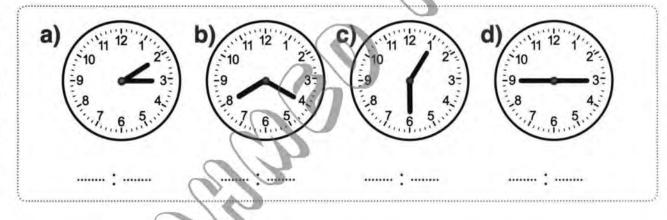


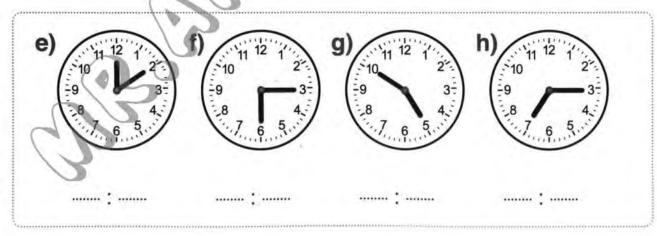
## Exercises on chapter6

1 Draw the hands of clock to show the time:



2 Write the digital time for the following clocks:





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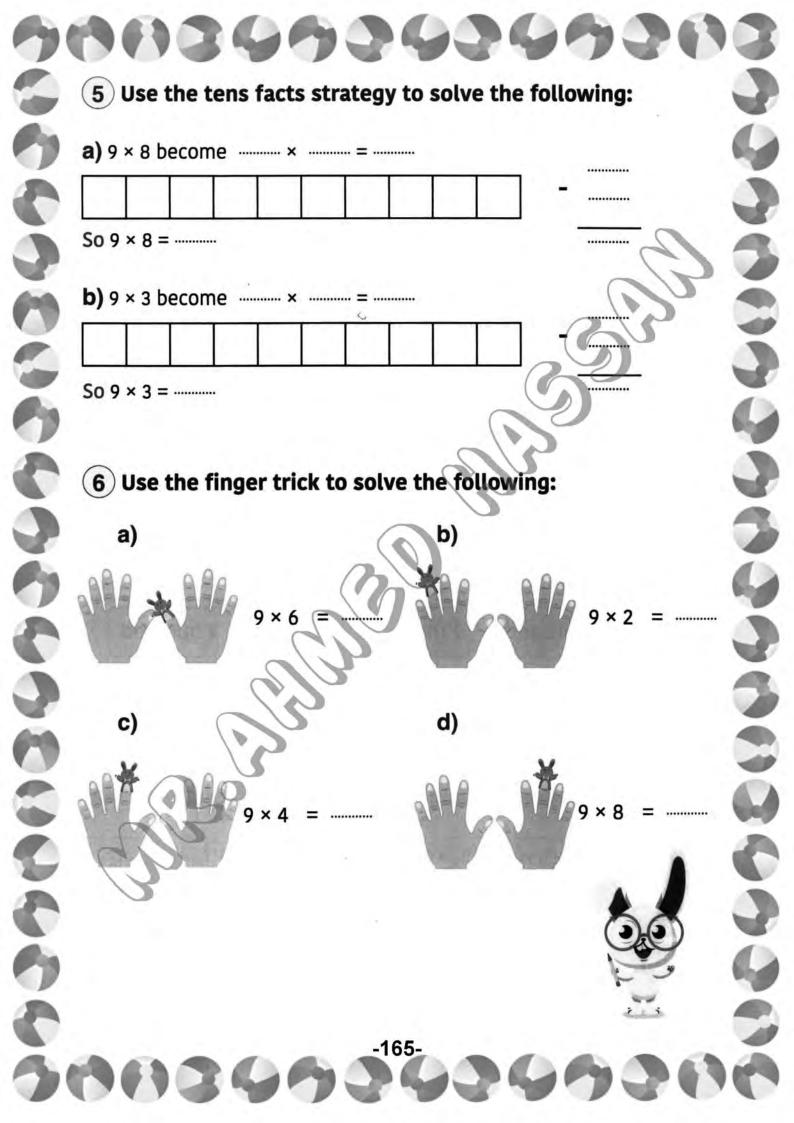
3 Solve the following problems:

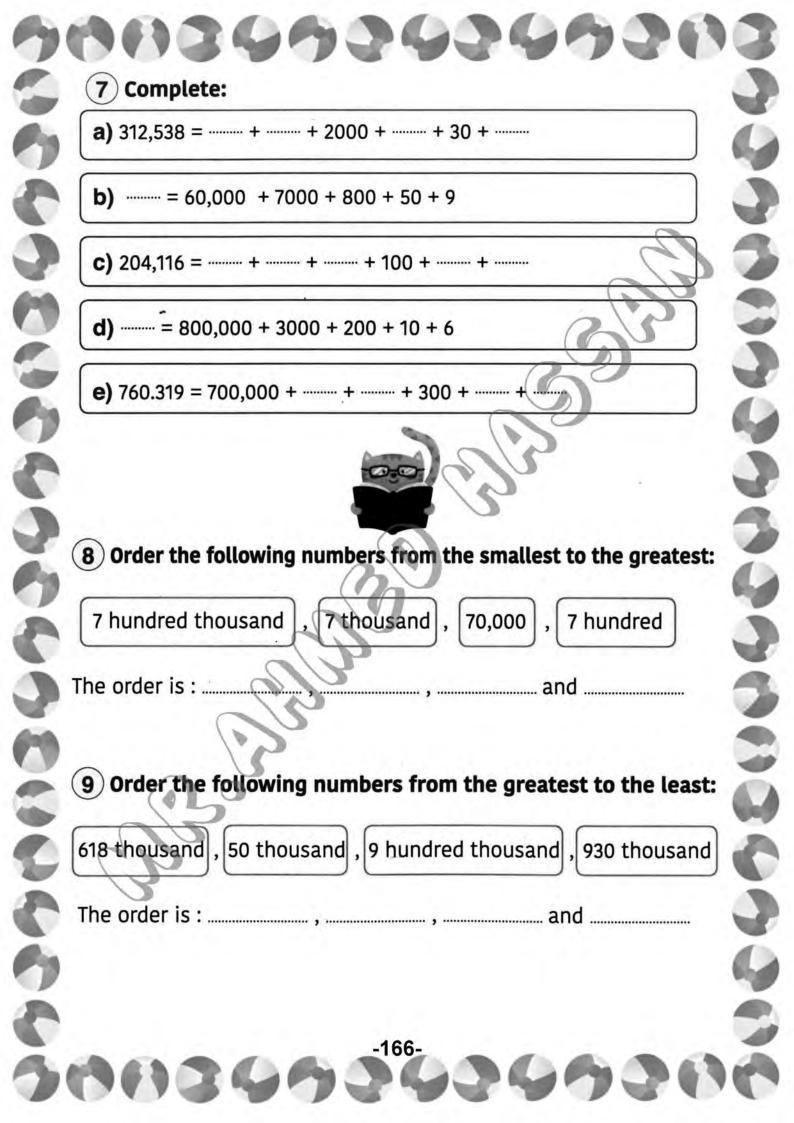
0000

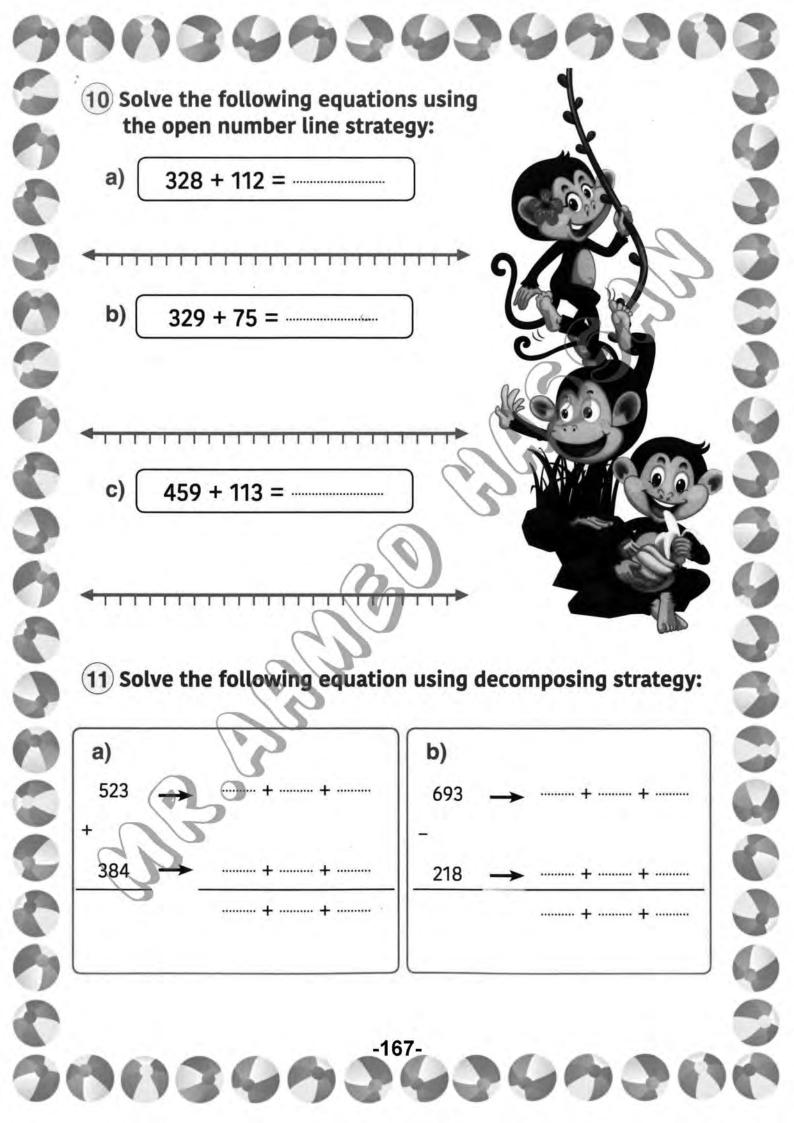
4 Use the following 120-chart to colour the multiples of 9 in red, then record your answer:

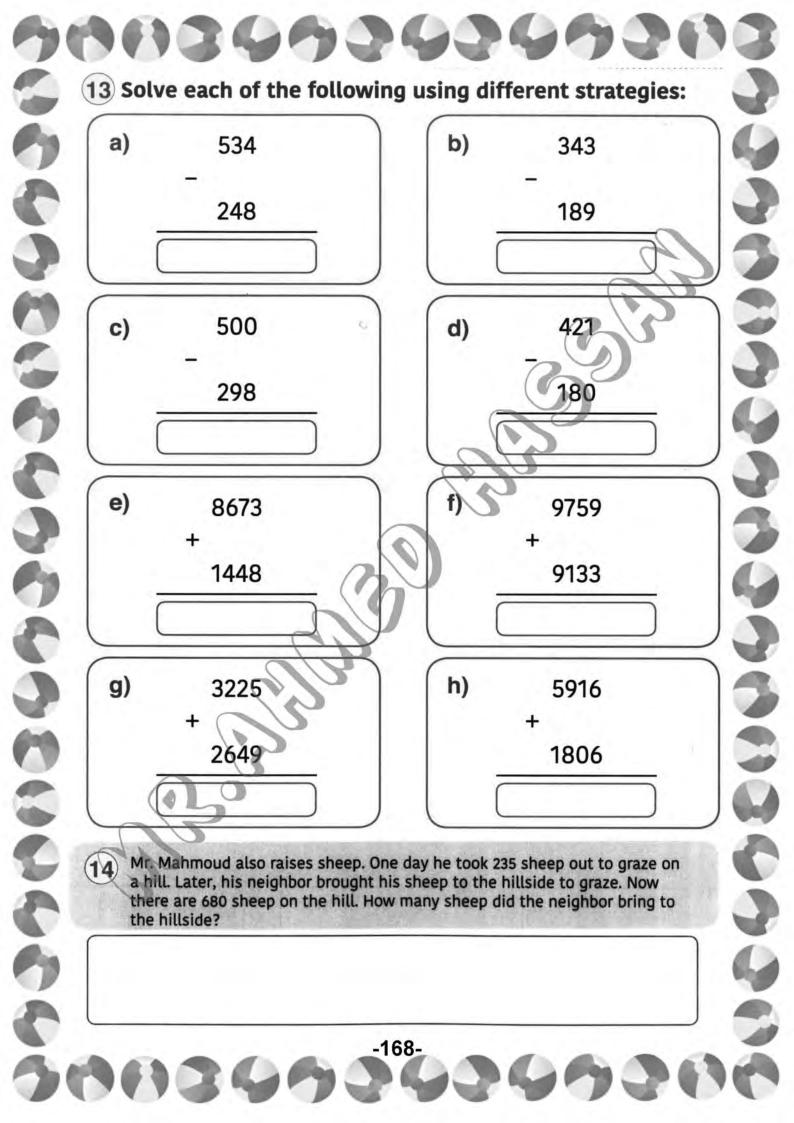
-164-

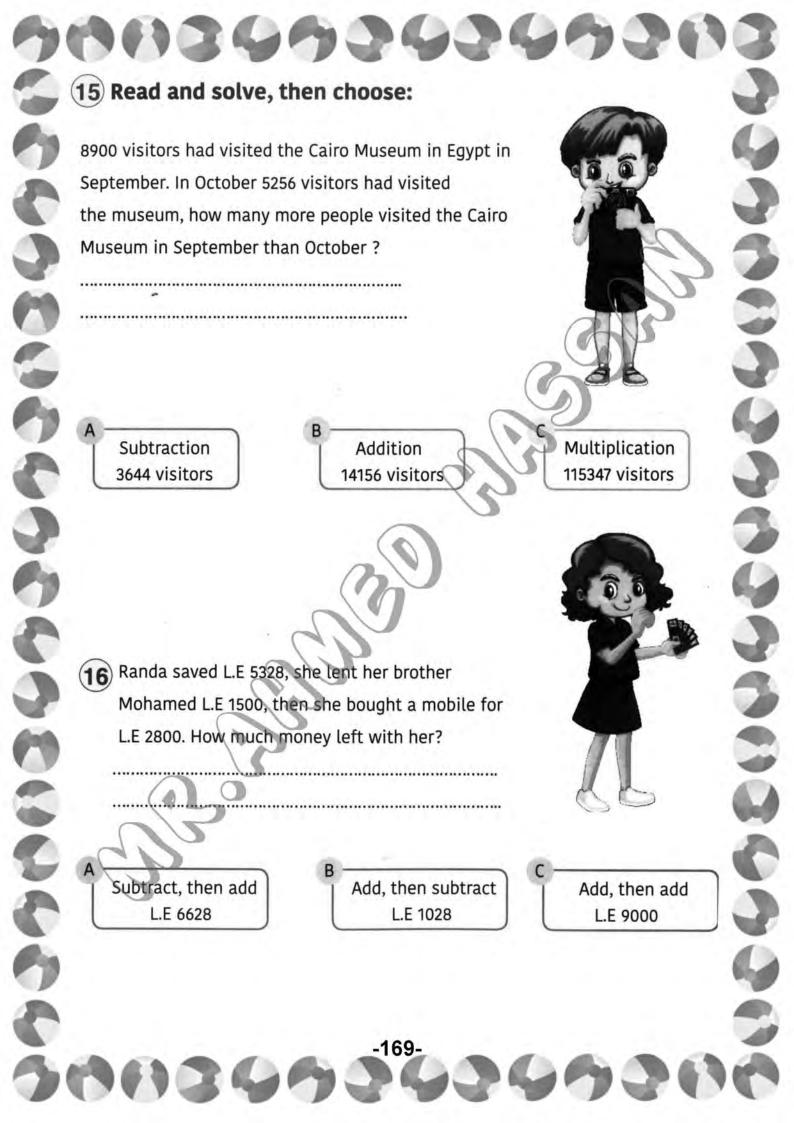
					1	-			
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
77	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

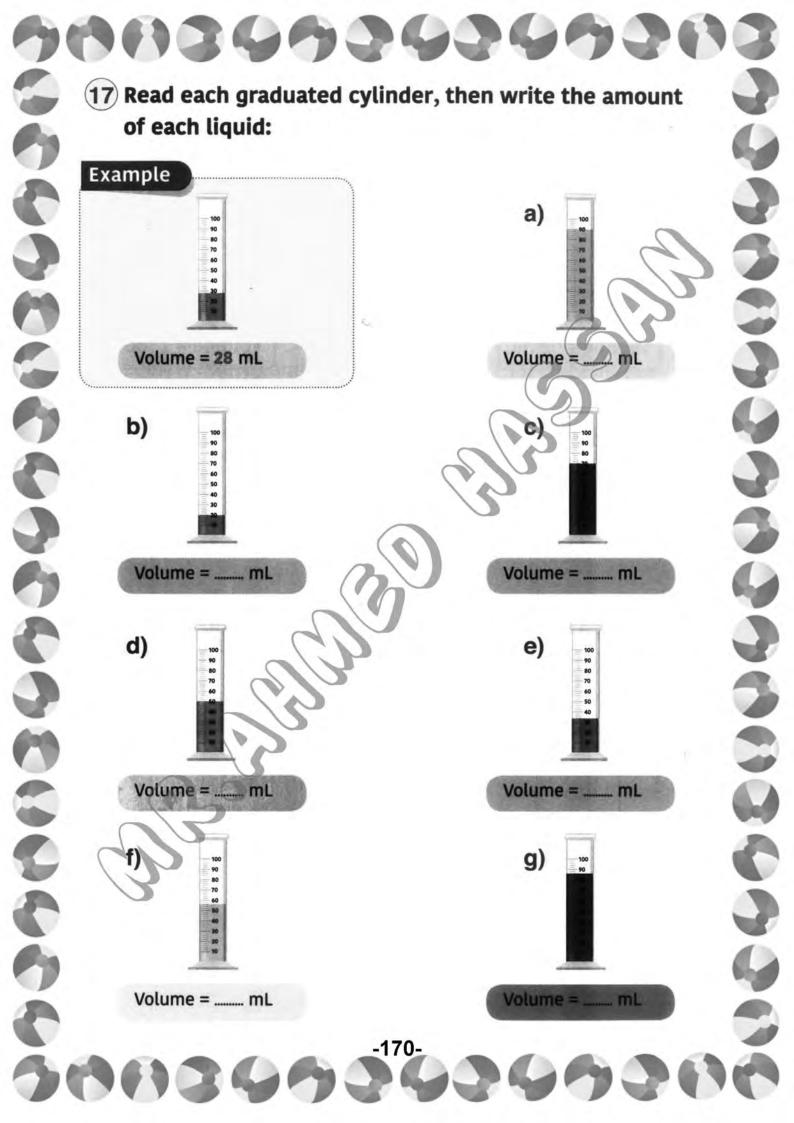


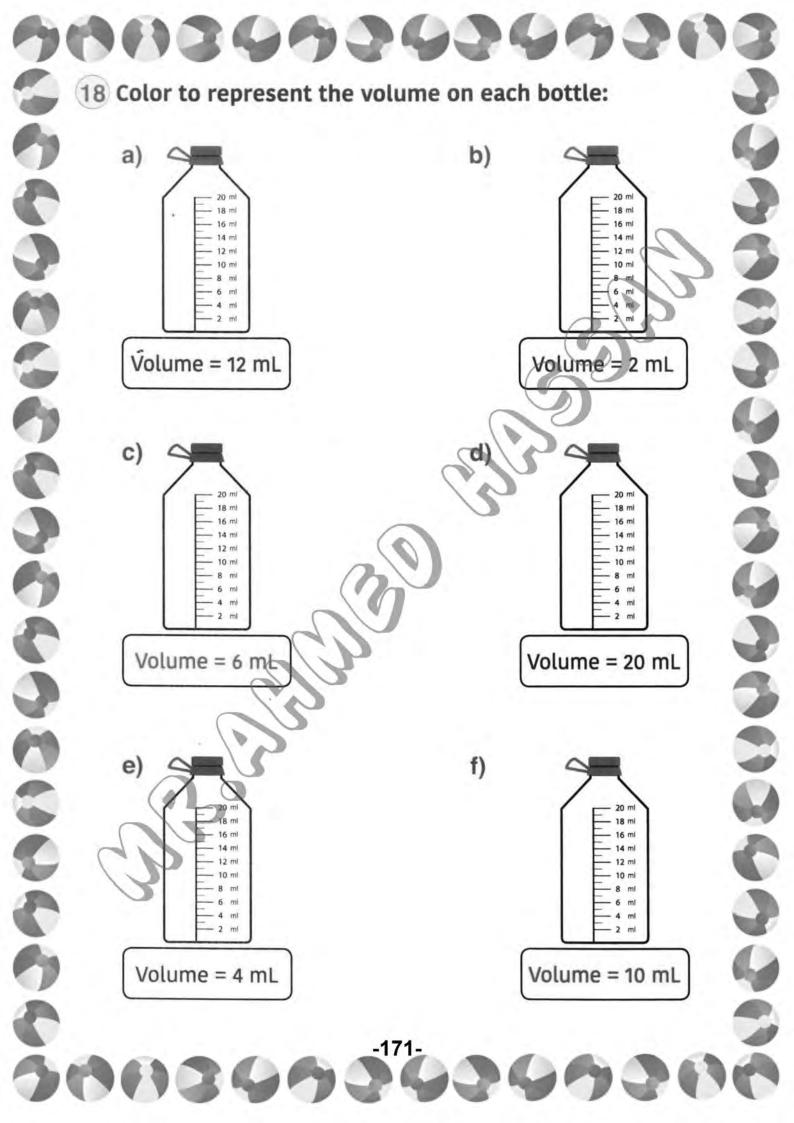












## Additional Exercises Complete: If 6 × 9 = 54, then 6 × 90 = ..... If $6 \times 4 = 24$ , then $6 \times .... = 2400$ . 3) $7 \times 90 = (7 \times \dots) \times 10$ . 4) (10 + 5) is a multiples of ...... If 10 × 6 = 60, then 60 ÷..... = 10.

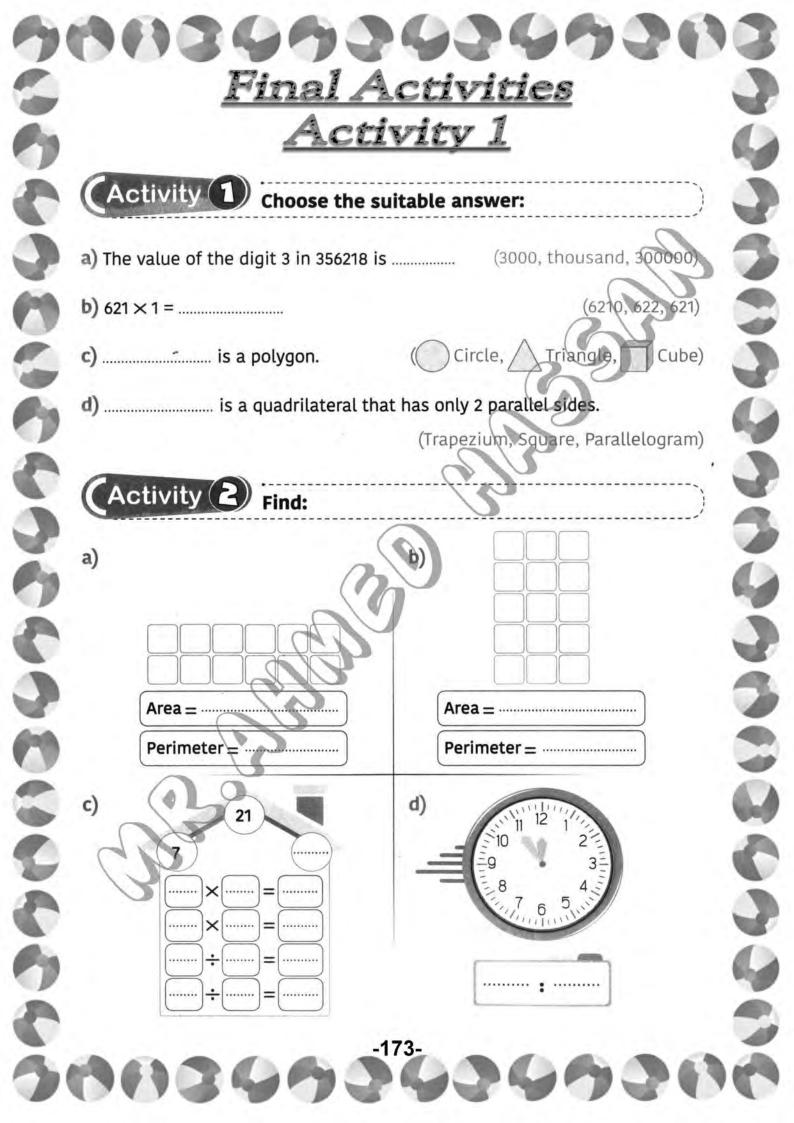
#### Choose the correct answer:

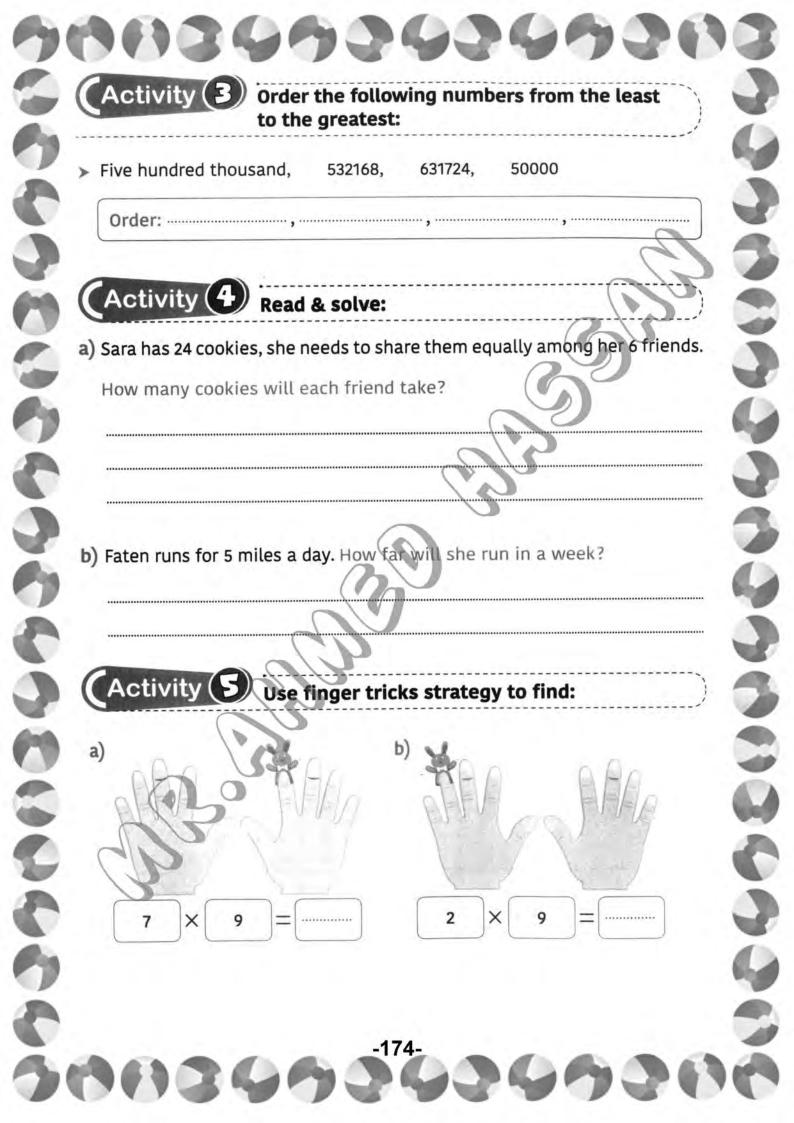
1 The figure that represents the array  $3 \times 4$  is

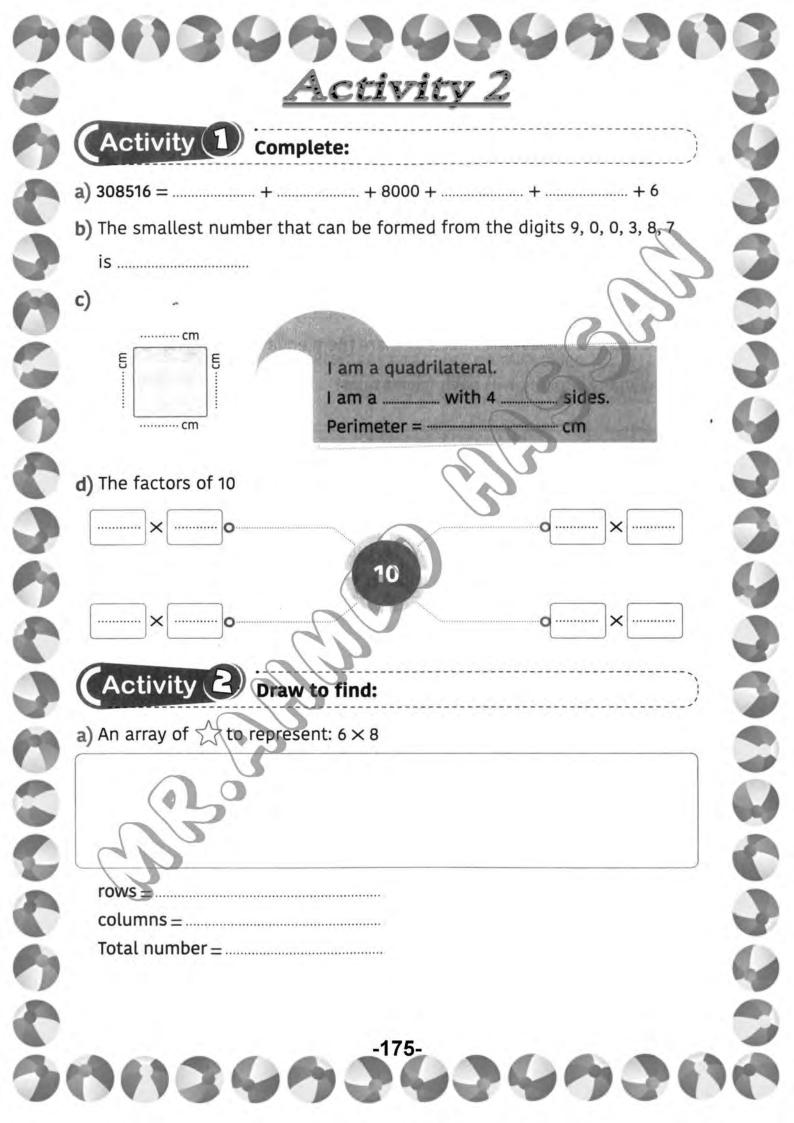


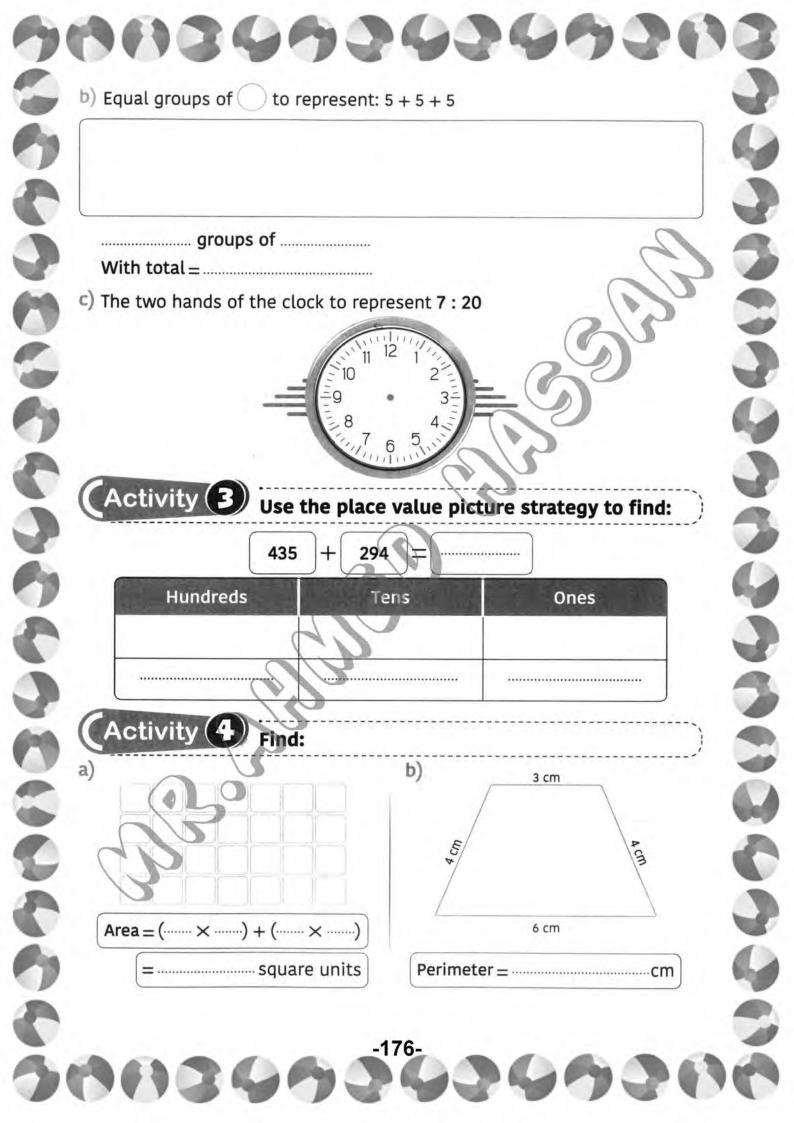
- 2 The estimated sum of 745 + 217 is (900 800 1000).
- 3. The amount of water in a large bucket can be measured in (liters - milliliters - meters).
- 4 The nearest estimate for the amount of medicine inside is (3 l - 3 ml - 30 ml).
- 5 If you know that 600 ml fills 6 cups, then 300 ml fills
- 673 is about 700 to the nearest (unit ten hundred).

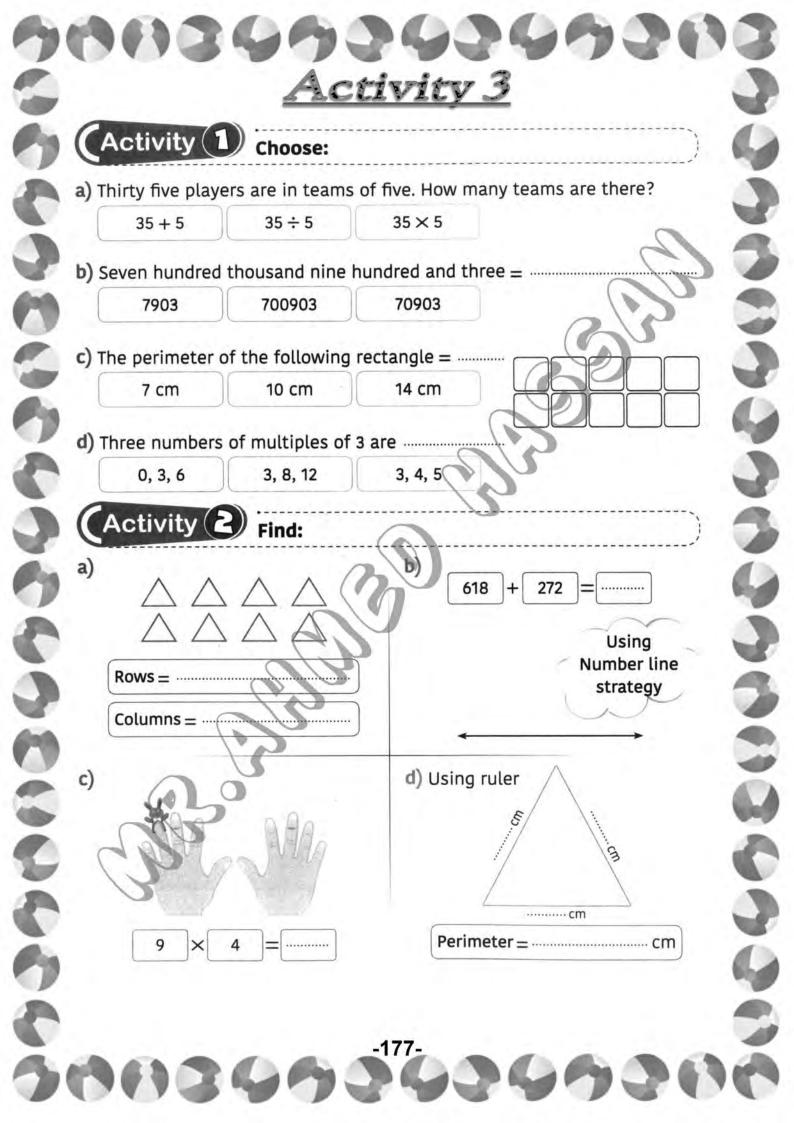
-172-

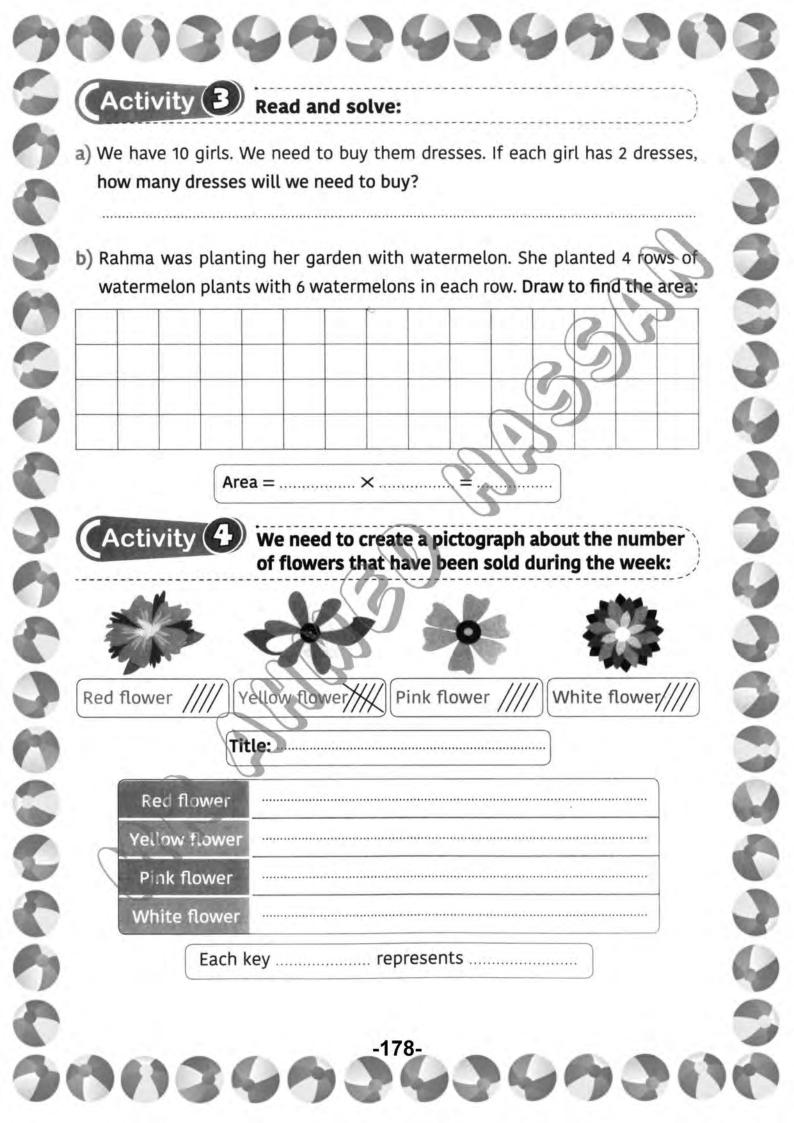


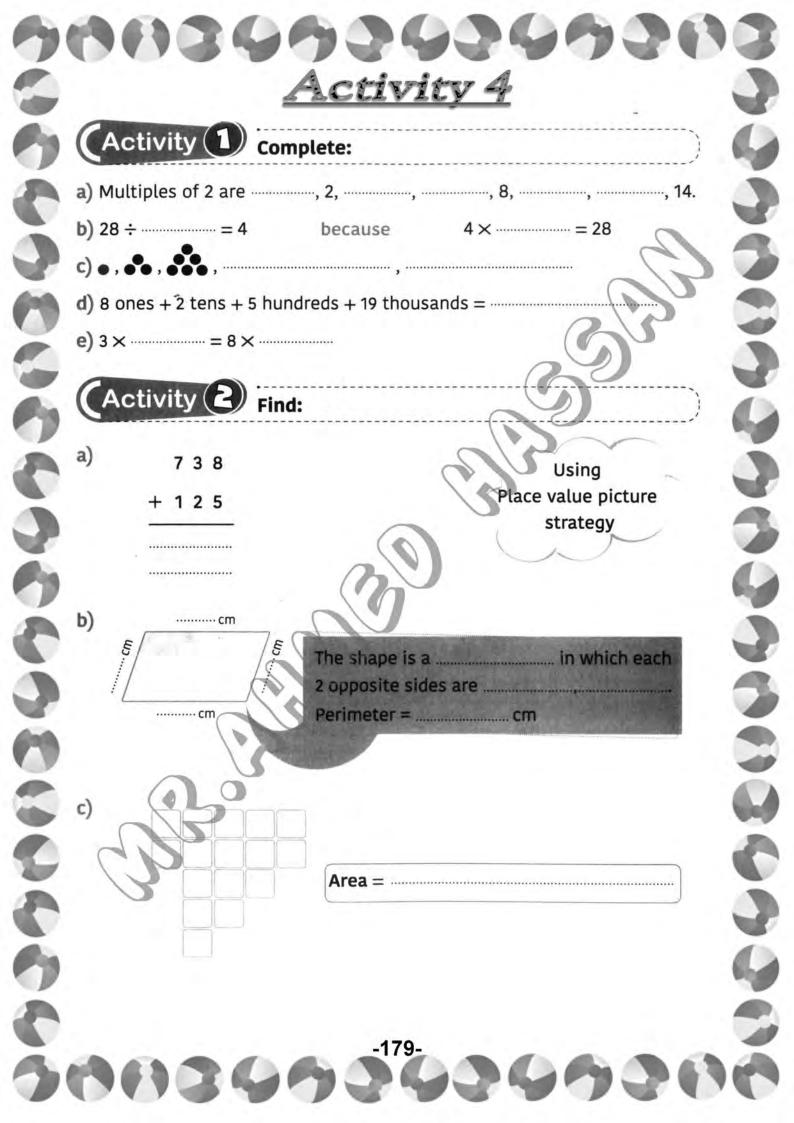


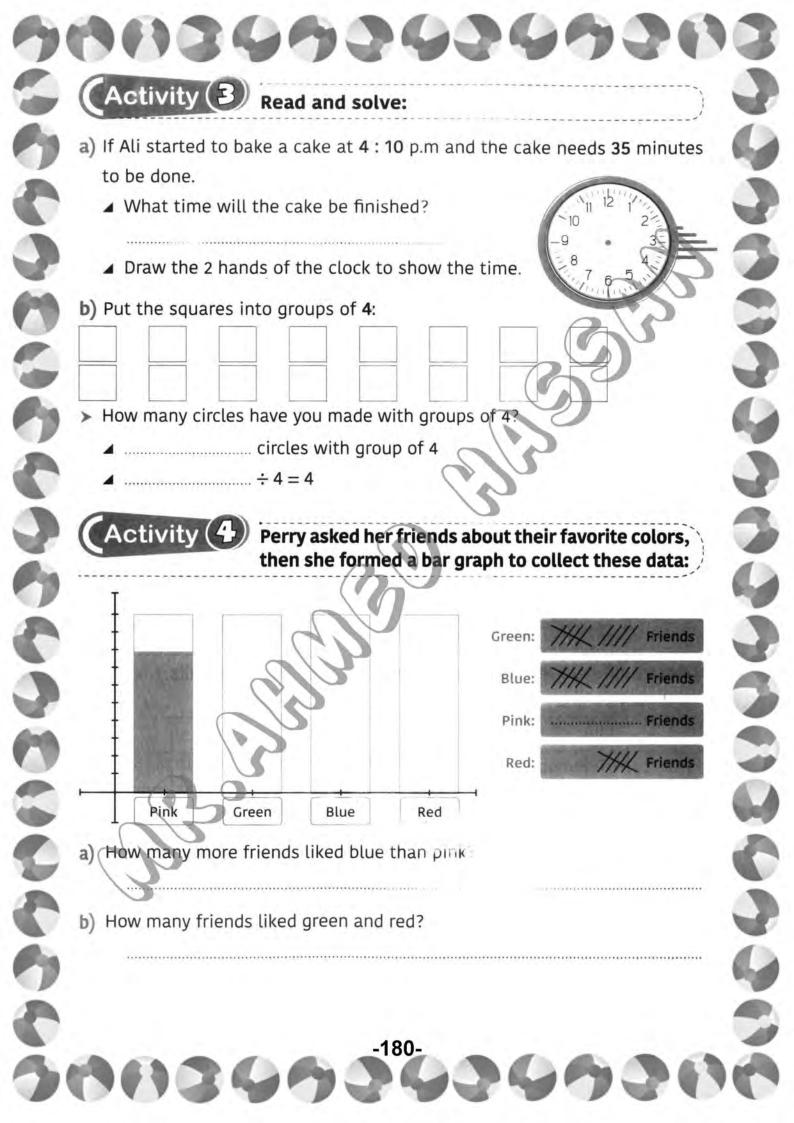


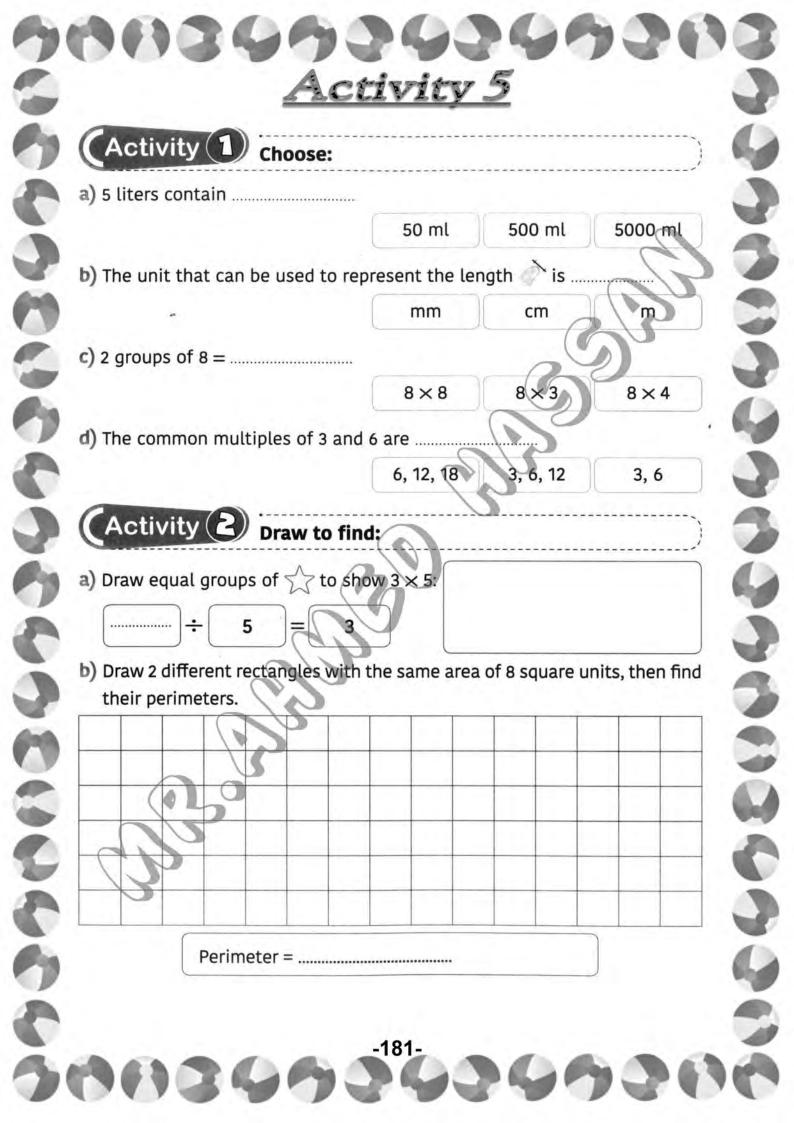




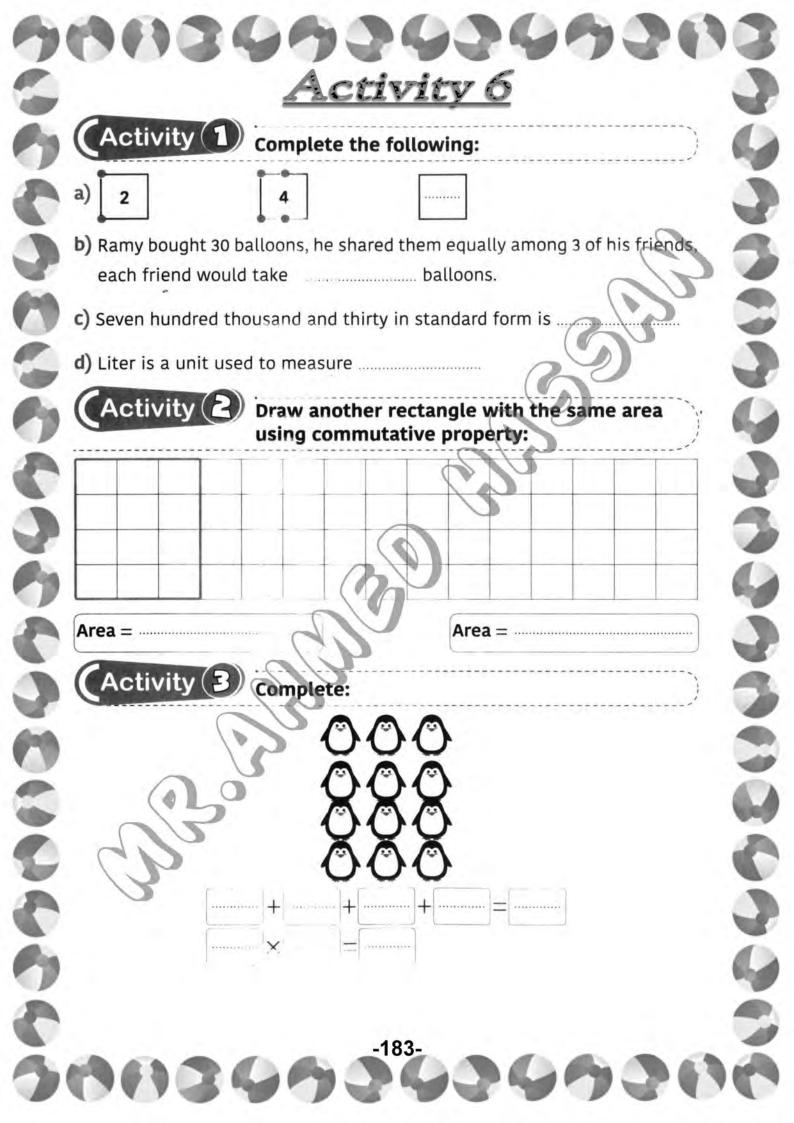




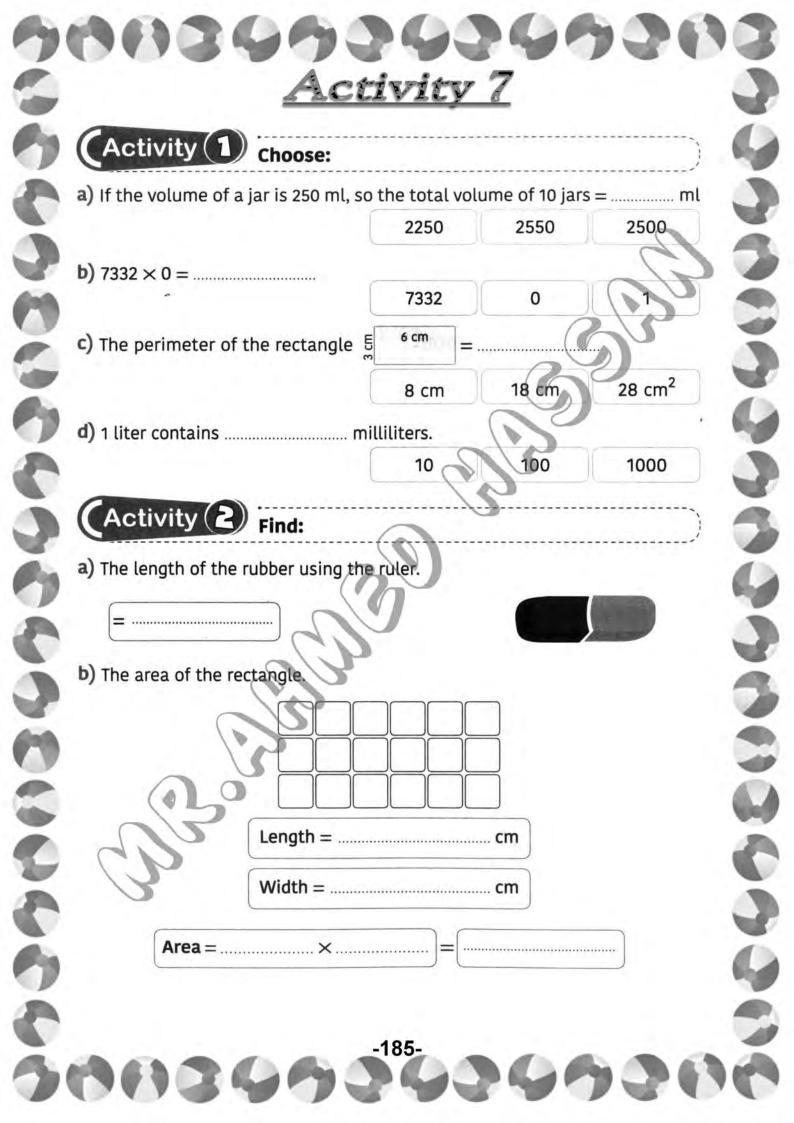




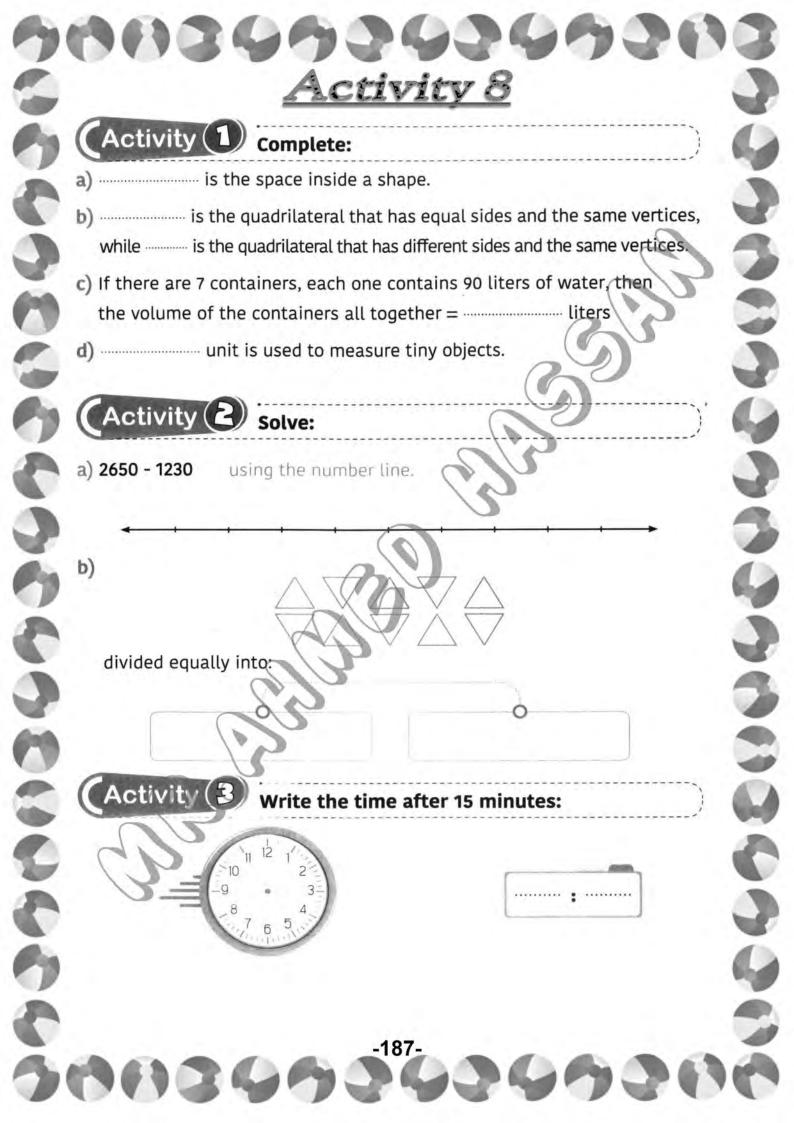
9	000000000000	3
3	(Activity (3) Read, then solve:	9
9	Amar has 21 balls that need to be divided among his 3 friends. Draw the balls to represent the equal sharing:	0
4	000	9
1		3
0	······································	3
3	Activity 4 Order the following numbers from the greatest to the least:	Š
7	> 6 hundred thousand, 628 319, 6000, 6 hundred thousand 52	1
4	> Order:,,,	1
0	Activity The following data table shows the protectorate places in Egypt. Use different strategies to answer	3
6	the following:	0
A	Protectorate places Area	-
-	Ras Mohamed 1850	-
0	St. Catherine 5750	3
0	Taba 3595  a) What is the total area of St. Cathrine and Taba all together?	2
2		ŏ
0	b) What is the total area of Ras Mohamed and Taba?	0
-		-
	c) Order the following protectorate places from the greatest to the least.	4
9	Order:,, ,, ,	4
0	100	3
3	000000000000000000000000000000000000000	6



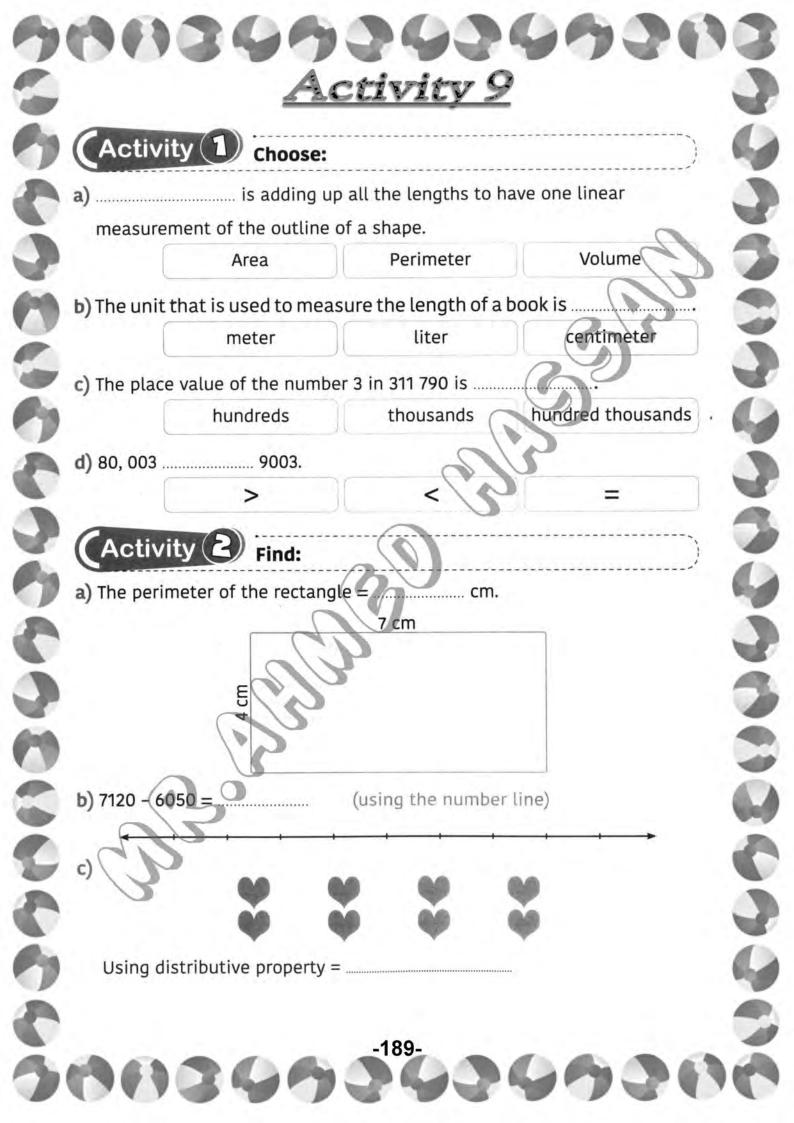
Write the word form of the number 9037, value of the number 3:	then find the value and the place
a) Word form =	
b) The value of 3 is	
c) The place value of 3 is	
Activity Find the perimeter perimeter:	, then tick (/) the largest
a) rectangle (A)	b) rectangle (B)
Perimeter =cm	
Termineter =	Perimeter =cm
	ows the weights of some vehicles:
Activity 6 The following table sh	ows the weights of some vehicles:
Activity 6 The following table sh	ows the weights of some vehicles:  Weights
Activity The following table sh	weights of some vehicles:  Weights  2810 kgm
Vehicles  Truck  Motorcycle	weights of some vehicles:  Weights  2810 kgm  6100 kgm
Activity The following table showing table s	weights  Weights  2810 kgm  6100 kgm  1344 kgm  igh than the motorcycle?kgm
Activity The following table showing table s	weights  Weights  2810 kgm  6100 kgm  1344 kgm  igh than the motorcycle? kgm car together?



	×	
	······································	a
	· ·	Up
(Activity 4) Res	ad and solve:	
➤ Khaled's field has 9 row	s of watermelons, each row cont	ains 5 watermelons.
How many watermelor	n plants does he have?	2)
	cord the data about the lengt	
	cord the data about the lengt ols, then represent them on a	
too	ols, then represent them on a	a line plot:
too	ols, then represent them on a	a line plot:
too	9 cm 9 cm	a line plot:
too	9 cm 9 cm 9 cm	in mm
too	9 cm 9 cm in cm 14 cm	in mmmm
too	9 cm 9 cm 14 cm 9 cm	in mmmm
too	9 cm 9 cm in cm 14 cm 9 cm 10 cm	in mmmmmm
14 cm	9 cm 9 cm in cm 14 cm 9 cm 10 cm	in mm



Thousand	Hundred	Tens	Ones	
3	4		8	
				2
Activity 5	Write the follow	lowing numbers	as required:	)
) <b>807, 317</b> (word fo	orm):			
			2	
) Sixty nine thous	and, four hundred	and one (standar	d form) =	
***************************************				
Activity <b>b</b>	Read, then so	olve:		\
		sales in the last s	ix months were	2100
	y books left in th		IX III, OTICITO III CO	
	01/2			
	<u> </u>			
	Find:			)
(Activity				
	sing the place val	ue picture)		
110		ue picture)		
10	sing the place val	ue picture)		



_= = 10	Time = ;
8,76	4
The state of the s	
Activity 3	Color the figure to complete the pattern, then find the area.
	The area =×
Activity 4	Teddy's Food Factory exports jars of jam. The pictograph shows the number of jars exported
Activity 4	Teddy's Food Factory exports jars of jam. The pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported
Activity 4	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:
	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported
Day	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported
Day	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported  Ine number of jam jars
Day Monday Tuesday	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported  Ine number of jam jars
Day Monday Tuesday Wednesday	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported  Ine number of jam jars
Day  Monday  Tuesday  Wednesday  Thursday	pictograph shows the number of jars exported each day. Use the information from the graph to answer the questions:  Jam jars exported  The number of jam jars

	Choose red thousand, t		and forty is		-2
		40250	400 + 50 + 2	400240	
)	is a polygon	in which each	2 opposite si	des are parall	et.
		$\triangle$		0	
) We can mea	asure the lengtl	h of a table by			
		centimeter	meter	millimeter	
d) If we divided	1 liter of juice a	mong 10 cups, s	o each cup woul	d contain r	ml.
		10	100	1000	
		Pe	rectang	le (B)	
	The largest pe	erimeter is		3	
	The smallest a				

9	60399399999303
0	(Activity 2)
A	Activity 3 Draw using to represent:
-	
-	
9	7 × =
	Activity 4 Find:
3	The name of the quadrilateral is
A	Perimeter =
-	5 cm
-	b) Write the number 101001 in word and expanded forms.  ✓ Expanded form:
3	Activity The following data show some of students' favorite
	musical instruments:
0	
0	
0	
-	Title:
0	Represent the data, then answer:  a) Circle the scale you have used: (2,4,5,10).
T	b) Which instrument is the most foundted
0	Which instrument is the local forwards?
9	Label:
A	Labet
A	-192-
	COSADSASSOC